



January 30, 2007

Mr. Robert Boggs  
Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, CA 94710-2737

Subject: Draft Battery Crosby Road Construction Report, Addendum to Construction  
Completion Report, Baker Beach Disturbed Areas 3 and 4.  
Presidio of San Francisco

Dear Mr. Boggs:

Attached please find one copy of the *Draft Battery Crosby Road Construction Report, Addendum to Construction Completion Report, Baker Beach Disturbed Areas 3 and 4 dated January 2007*, prepared by Treadwell & Rollo for the Presidio Trust (Trust). This report summarizes the reconstruction of Battery Crosby Road following remedial excavation activities performed at former Baker Beach Disturbed Area 3 (BBDA3) located in the Presidio of San Francisco, California. This report has been prepared as an addendum to the Trust's Construction Completion Report, Baker Beach Disturbed Areas 3 and 4 (Treadwell & Rollo, 2005) dated August 2005.

Please feel free to call me at 415-561-4259 if you have any questions and/or comments.

Sincerely,

Craig Cooper  
Environmental Remediation Manager

Enclosure: Draft Battery Crosby Road Construction Report, Addendum to Construction  
Completion Report, Baker Beach Disturbed Areas 3 and 4 dated January 2007

cc with enclosures: Devender Narala, RWQCB  
Brian Ullensvang, NPS  
Doug Kern, RAB  
Mark Youngkin, RAB (without enclosure)



**DRAFT**  
**BATTERY CROSBY ROAD CONSTRUCTION REPORT**  
**ADDENDUM TO CONSTRUCTION COMPLETION REPORT**  
**BAKER BEACH DISTURBED AREAS 3 AND 4**

*Prepared for:*

The Presidio Trust  
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San Francisco, CA 94129-0052  
415/561-5300 fax 415/561-5315

January 2007

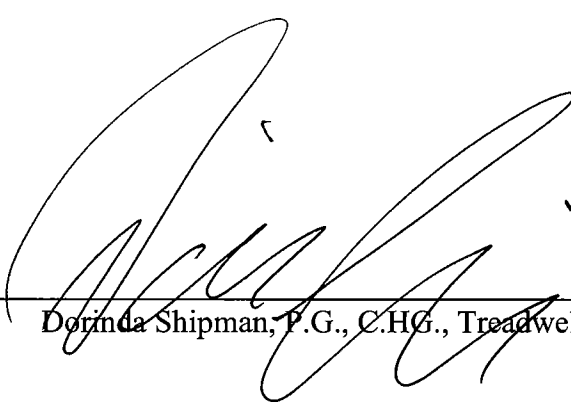


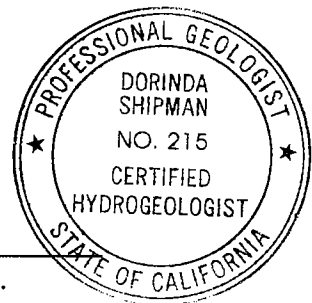
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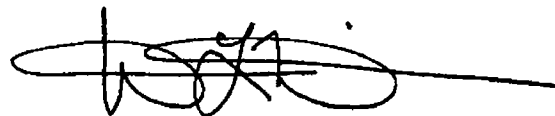
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January 2007

  
Dorinda Shipman, P.G., C.H.G., Treadwell & Rollo, Inc.





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Project CQA Officer



**BATTERY CROSBY ROAD CONSTRUCTION REPORT  
ADDENDUM TO CONSTRUCTION COMPLETION REPORT  
BAKER BEACH DISTURBED AREAS 3 AND 4**

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**BATTERY CROSBY ROAD CONSTRUCTION REPORT  
ADDENDUM TO CONSTRUCTION COMPLETION REPORT  
BAKER BEACH DISTURBED AREAS 3 AND 4**

**List of Acronyms and Abbreviations**

|                   |  |
|-------------------|--|
| ABS               | Acrylonitrile Butadiene Styrene  |
| ADA               | Americans with Disabilities Act  |
| Army              | United States Army   |
| BBDA 3            | Baker Beach Disturbed Area 3   |
| COCs              | contaminants of concern  |
| CMP               | corrugated metal pipe  |
| Design Drawings   | <i>BBDA 3 Road Improvement Plan</i>  |
| DI                | Storm drain inlet  |
| DTSC              | California Environmental Protection Agency, Department of Toxic Substances Control             |
| HASP              | Health & Safety Plan   |
| NAD27             | North American Datum of 1927   |
| NAVD88            | North American Vertical Datum of 1988  |
| NPS               | National Park Service  |
| Ox Mountain       | BFI Ox Mountain Sanitary Landfill  |
| Perf-Ex           | Performance Excavators, Inc.   |
| Presidio          | The Presidio of San Francisco  |
| RAP               | <i>Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4</i>           |
| RWQCB             | California Regional Water Quality Control Board  |
| RW Davis          | R.W. Davis & Associates  |
| Treadwell & Rollo | Treadwell & Rollo, Inc.  |
| Trust             | The Presidio Trust   |
| yd <sup>3</sup>   | cubic yard   |
| Work Plan         | <i>Work Plan to Implement the Remedial Action Plan for Baker Beach Disturbed Areas 3 and 4</i> |

## 1.0 INTRODUCTION

On behalf of The Presidio Trust (Trust), Treadwell & Rollo, Inc. (Treadwell & Rollo) has prepared this report, which summarizes the reconstruction of Battery Crosby Road following remedial excavation activities performed at former Baker Beach Disturbed Area 3 (BBDA 3) located in the Presidio of San Francisco, California (Figure 1). This report has been prepared as an addendum to the *Construction Completion Report, Baker Beach Disturbed Areas 3 and 4* (Treadwell & Rollo, 2005) dated August 2005, which documented the remedial action performed at BBDA 3. A detailed discussion of site history and previous investigation results is presented in the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4* (RAP) (Treadwell & Rollo, 2004a).

### 1.1 Background

The Presidio of San Francisco (Presidio) is located in the City of San Francisco, at the northern tip of the San Francisco peninsula. The Presidio occupies approximately 1,480 acres and is bound by San Francisco Bay on the north and the Pacific Ocean on the west. Densely populated residential areas of San Francisco border the Presidio to the south and east.

The Presidio was a United States Army (Army) installation from 1848 through 1994, serving as a mobilization and embarkation point during several overseas conflicts, a medical debarkation center, and a coastal defense for the San Francisco Bay area. Battery Crosby, constructed in 1899 to 1900 as part of the coastal defense system, housed a pair of 6-inch guns on disappearing carriages. Battery Crosby Road provided access to the battery (Figure 2). The road was constructed of locally derived compacted gravelly chert and gravelly, weathered serpentine typically used by the Army to surface roads within the Presidio. The cherty roadbed layers were placed on native dune sand.

Beginning in the 1930s, the Army began placing fill soils in the ravine adjacent to and west of the road. Over the years, the ravine was filled in with soil, wastes, and construction debris. By about 1979, the ravine had been filled and the access road had been straightened and re-aligned southward to a position where it cut diagonally across the former ravine (Figure 2 and Photo 1). The Trust and the National Park Service (NPS) completed implementing the remedial action for the removal of the waste fill material that was BBDA 3 in 2005. The waste fill that supported the access road was removed during the cleanup (Photos 2 through 4).

In June 2004, prior to remediation at the Site, the Trust excavated exploratory test pits on the upper bench area of BBDA 3 to verify and delineate the limits of the historical Battery Crosby Road. Historical aerial photographs had shown that over time, the Battery Crosby Road alignment was modified (Figure 2). As presented in the *Technical Memorandum: Historical Battery Crosby Road and Lead Exploratory Test Pit Excavation Observations and Results* (Treadwell & Rollo, 2004d), the presence of a chert road surface was observed at depths between

1 and 3 feet below the pre-remediation ground surface. As a requirement of the NPS 5X project review, investigation, documentation, and preservation of the historical Battery Crosby Road was conducted throughout the remedial construction. The remedial work was coordinated with NPS archeologist, Mr. Leo Barker.

## **1.2 Remedial Action**

A “clean closure” remedial action was selected in the RAP and implemented at BBDA 3 as a final, permanent remedy for the site. The work was performed in accordance with the *Work Plan to Implement the Remedial Action Plan for Baker Beach Disturbed Areas 3 and 4* (Work Plan) (Treadwell & Rollo, 2004c), which outlined the technical scope of work required to implement the recommended remedial alternative for BBDA 3 described in the RAP. The *Construction Plans and Specifications* (Minshaw Engineering and Treadwell & Rollo, 2004), which included the *Construction Quality Assurance (CQA) Plan* for the project, were prepared concurrently with the Work Plan and the *Slope Stability Evaluation Report for Baker Beach Disturbed Area 3* (Treadwell & Rollo, 2004b). The remediation documents were reviewed and approved by the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) and the California Regional Water Quality Control Board (RWQCB).

As presented in the *Construction Completion Report*, between 1 July 2004 and 13 January 2005, approximately 57,595 tons of waste material was removed from BBDA 3 as part of the RAP implementation. The waste materials removed consisted of non-native fill materials (artificial fill soils, tree stumps and wood waste, construction debris, and municipal waste).

During the remedial activities, Treadwell & Rollo supervised and logged two trenches to identify the limits of the chert roadbed (Treadwell & Rollo, 2004d). The thickness of the chert roadbed varied from a thin veneer to approximately 3 feet thick. The apparent width of the roadway was approximately 50 feet. The differences observed in the roadbed construction were attributed to the trenches exposing two separate roadways: the original pre-1958 road alignment and the newer 1958-1973 roadway alignment (Figure 2).

As excavation continued, the eastern portion of the Battery Crosby Road was narrowed to a width of 20 feet to match the older, pre-1958 dimensions. The excess chert from the narrowing work was excavated, exposing the underlying dune sand, and was stockpiled separately for potential reuse in resurfacing of the Battery Crosby Road following construction (Figure 3). On 17 November 2004, a four-point composite waste characterization sample (BB3COMPA through BB3COMPD composited as BB3 COMP) of the stockpiled chert was collected. The results of the analyses indicated no exceedances for the RAP site contaminants of concern (COCs). The analytical results for sample BB3 COMP are summarized in Table 1. The analytical laboratory reports are included in Appendix A.

During the soil confirmation sampling to document clean closure, a number of soil confirmation samples were collected from soil in or adjacent to the chert roadway. Analytical results from three soil confirmation samples (BB3EX146 through BB3EX148) detected exceedances for one or more COCs. Based on these results, a portion of the historical Battery Crosby roadway was excavated and removed. Once overexcavation was completed, the area was re-sampled. The results from subsequent sampling indicated that the COC concentrations were below cleanup levels (Treadwell & Rollo, 2005).

Based on the remedial activities conducted, field observations, established cleanup levels, and a review and evaluation of the soil confirmation sampling results, BBDA 3 was recommended for construction completion in the *Construction Completion Report*. Site groundwater and seep monitoring implemented per the RAP will continue for three years as part of the Presidio-wide Groundwater Monitoring Program. The data will then be reviewed to determine whether applicable cleanup levels have been achieved and monitoring is considered complete.



## **2.0 ROAD CONSTRUCTION ACTIVITIES**

Because Battery Crosby is located in Area A of the Presidio, NPS is responsible for specifying and approving the post-remediation configuration of the access road. Between 6 December 2004 and 14 November 2005, the Trust prepared design drawings for the construction of Battery Crosby Road. On 23 November 2005, the NPS submitted to the Trust written concurrence of the *BBDA 3 Road Improvement Plan* (Design Drawings) (Minshew Engineering and Treadwell & Rollo, 2005). The road construction activities were conducted in general accordance with the *Construction Plans and Specifications* and Design Drawings. BBDA 3 road realignment construction activities were conducted between 7 December 2005 and 23 February 2006. Table 2 presents a timeline for the construction of Battery Crosby Road, which are described in detail below.

### **2.1 General Activities**

The Trust contracted with Performance Excavators, Inc. (Perf-Ex) of San Rafael, California, to provide construction services including earthmoving and road construction activities. Treadwell & Rollo and Minshew Engineering performed construction oversight and quality assurance services, respectively, and Treadwell & Rollo performed field density testing of compacted soil.

#### **2.1.1 Health & Safety**

The Health & Safety Plan (HASP) followed for the road construction activities was the same HASP used for the remediation project issued by Perf-Ex on 5 May 2004. The HASP included the information pertaining to potential and identified hazards and protocols necessary to protect worker and public safety during the project.

#### **2.1.2 Surveying**

Surveying was conducted prior to construction of the proposed road alignment and at the completion of the final road realignment. Perf-Ex contracted R.W. Davis & Associates (RW Davis), a California-licensed land surveyor to provide the surveying services. The horizontal coordinates are based on North American Datum of 1927 (NAD27), Zone 3. The elevations are referenced to the North American Vertical Datum of 1988 (NAVD88).

RW Davis performed the pre-construction survey for the site on 13 December 2005. The pre-construction survey included the establishment the roadway center and boundary alignments and grade elevation. The post-excavation “as-built” survey, including site topography and improvements (roadway alignment, storm drain outfalls, fence lines, etc.) at BBDA 3 was

conducted following grading between 23 February 2006 and 1 March 2006. The BBDA 3 final survey results are presented in Appendix B.

## **2.2 Battery Crosby Road Realignment**

Perf-Ex mobilized heavy equipment to BBDA 3 on 13 December 2005 to provide excavating, earth moving, and road construction activities. The primary excavation activities were performed using a Link-Belt excavator, Caterpillar D5 dozer, and Caterpillar 966G loader.

The design for the new road alignment complies with the Americans with Disabilities Act (ADA) for public access, as required. One main consequence of ADA compliance was the relocation of the entrance for the road approximately 50 feet to the south of the historical entrance (Figure 4). The relocation of the roadway entrance was necessary to decrease the overall grade of the roadway to within ADA specifications (<8.3% maximum).

### **2.2.1 Excavated Wastes and Earth Fill Materials**

Excavation and removal of onsite materials was required during the construction the new road. Waste material excavated during road construction at the site included:

- Green waste (surface brush and soil mix) and trash for disposal;
- Soil for Class III disposal; and
- Chert fill material, salvaged for potential future use.

Prior to the start of construction activities, Perf-Ex conducted waste characterization sampling to establish a waste profile of the material for the disposal facilities. The waste material excavated was generated during scarifying of the surface vegetation and high organic-content soil prior to placement of imported sand for the construction of the new road entrance (Photo 5).

Waste materials for this project were transported to the following facilities for the indicated type of disposition.

- West Contra Costa Landfill, Richmond, California – green waste and debris/trash; and
- BFI Ox Mountain Sanitary Landfill (Ox Mountain), Half Moon Bay, California  
- Class III soil.

Additional chert fill material was excavated during the removal of the historical Battery Crosby Road entrance. The chert fill material from the historical entrance was salvaged and was stockpiled at an offsite location within the Presidio for potential future use.

A description of the waste types and documented volumes in each category disposed at BBDA 3 are presented in Table 3. Copies of the trucking weight tickets are included in Appendix C.

In accordance with the Work Plan and *Construction Plan and Specifications*, imported construction material was approved by the Trust prior to delivery to the site. Three types of materials were used to construct the new Battery Crosby Road:

- Dune sand provided by the Trust;
- Class II virgin aggregate base rock supplied from Dutra Quarry in Richmond, California; and
- Onsite derived chert road surface material, salvaged from the historical Battery Crosby Road during site remediation activities.

The dune sand material provided by the Trust was supplied from a stockpiled source within the Presidio. This dune sand was used to construct the new Battery Crosby Road entrance and locally as road fill for the new roadway alignment.

In mid-2004, the Trust acquired approximately 40,000 tons of dune sand from a site located in Golden Gate Park. The material was previously sampled and analyzed to document that it was un-impacted and acceptable for use as Presidio backfill material. A copy of the *Draft Final Letter Report, Sampling and Testing, Imported Dune Sand* dated 30 August 2004 prepared by Geologica Inc., presenting the sampling results is included as Appendix A.

Prior to the start of construction activities, Perf-Ex conducted material characterization sampling of the quarried Class II aggregate base rock to establish the material as an acceptable virgin source. The Class II aggregate road base was used as the lower portion of the new roadway section. The analytical results were reviewed and accepted by the Trust. A copy of the laboratory analytical results for the Class II aggregate base rock material is included in Appendix A.

The top surface material used to complete the new Battery Crosby Road is chert road material salvaged from portions of the historical road excavation activities. As noted in Section 1.2, the salvaged chert material was sampled and approved for re-use. The analytical laboratory reports are included in Appendix A.

The excavated and imported materials were loaded out or delivered by Perf-Ex and transported to/from the appropriate landfill/source using 10-wheel dump trucks. The incoming and outgoing truck traffic pattern was in accordance with the authorized haul routes presented in the RAP and Work Plan. After a truck was loaded onsite, flagmen would halt traffic (vehicle, bicycle, and pedestrian) in both directions on Lincoln Boulevard. The loaded trucks containing waste materials would depart the site and exit the Presidio on US Highway 101. The road and pedestrian footpath were open at all other times, including evenings, weekends, and workdays

during which no hauling activities occurred. Public access to Baker Beach was maintained throughout the project.

## **2.2.2 Battery Crosby Road Re-alignment Construction**

As detailed below, the construction of Battery Crosby Road consisted of three phases:

- Construction of the new entrance and removal of the former historical entrance;
- Construction of the new roadway alignment; and
- Re-vegetation of the new slope.

### **2.2.2.1 New Battery Crosby Road Entrance**

As previously noted to be compliant with ADA requirements, the entrance for the access road needed to be re-located approximately 50 feet south of the historical entrance (Figure 4). On 13 December 2006, Perf-Ex began to scarify the surface vegetation and excavate and remove soil containing high organic content. Approximately 64 cubic yards (yd<sup>3</sup>) of green waste (surface brush and vegetation mixed with soil) and trash (spent wattles, silt fences, debris) were excavated and/or removed prior to the construction of the new road entrance (Table 3). Additionally, approximately 27 yd<sup>3</sup> of organic-rich soil was excavated and disposed of as Class III waste at Ox Mountain (Table 3).

Prior to earth fill placement, two storm drain outfalls that discharged runoff from Lincoln Boulevard within the new entrance footprint had to be extended (Figure 4). The southern-most storm drain outfall, draining northbound Lincoln Boulevard, was extended using approximately 40 feet of 12-inch diameter, corrugated metal pipe (CMP) (Photo 6).

The outfall for the southbound Lincoln Boulevard was found to be plugged with debris and positioned at an elevation that would have interfered with the construction of the new entrance. The Trust decided to completely remove, replace, and extend the existing storm drain from the Lincoln Boulevard drain inlet (DI) (Photo 7). Upon excavating the old storm drain pipe it was observed that a portion of the drain line was constructed with transite pipe. Transite pipe is an asbestos-cement manufactured pipe (Photo 8). The 10-foot section of transite pipe was removed, sealed in plastic sheeting, labeled, and placed with the Trust asbestos abatement program's stored wastes located within the Presidio at Central Magazine for appropriate disposal. The new storm drain replacement for the southbound Lincoln Boulevard was constructed with approximately 90 feet of 12-inch diameter CMP. Following the construction of the storm drain extensions, import dune sand fill was placed over the pipes and compacted (Photo 9).

The relocation of the roadway entrance required a soil fill wedge be placed and compacted to raise the roadway grades to meet the ADA requirements. To add strength to the fill wedge, layers of bi-axial geogrid (Marfi 3XT) were placed at a vertical spacing of approximately 18-inches

within the imported dune sand fill (Photo 10). Each lift was roller compacted to at least 95% relative compaction<sup>1</sup>. The fill placement was observed by Treadwell & Rollo personnel and field density tests were conducted periodically. A tabular summary of the compaction test results, and compaction curves, are presented in Appendix D. The new entrance for Battery Crosby Road was constructed with the geogrid reinforced dune sand to a maximum thickness of 8 vertical feet above the original ground surface (Photo 11). A total of approximately 510 yd<sup>3</sup> of imported dune sand fill was placed during the construction of the new Battery Crosby Road entrance and roadway.

To reduce erosion of the newly placed fill adjacent to the new roadway entrance, it was blanketed with a designed slope erosion Geocell system (Figure 4). The Geocell slope protection consists of backfilled, anchored panels of cellular, high density polyethylene. Each nominally-expanded panel is approximately 8.4 feet wide by 27.4 feet long with individual cell dimensions of approximately 10- by 8-inches wide and 8-inches deep. Each panel is anchored from the top of the slope using a buried, 4-inch diameter, Schedule 40, steel pipe “deadman” (Photo 12). The deadman was embedded at least 3 feet beneath the final roadway grade. The panels are suspended from the buried deadman by nylon web tendons. The design for this slope application required two tendons for each panel. The expanded Geocell panel was secured to the tendons using polymer j-hook stops (Photo 13). The j-hook was secured to the tendon using a Moore-hitch thereby preventing the up-slope cell wall from advancing further down slope. The j-hooks were installed along each tendon, within every third cell for the length of panel (Photo 14). To install the panels along the curved slope constructed for the entrance, special attention was paid to each panel installation orientation. Each panel on the curve was compressed laterally at the top of the radius of slope so that the resulting shape of the panel was tapered (Photo 15).

Once the panels were secured to the tendons and properly positioned, the cells were backfilled with imported dune sand (Photo 16). The cells were overfilled approximately 10- to 18-inches to allow for settling and compaction. The slope was completed before being hand raked prior to re-vegetation (Photo 17).

#### **2.2.2.2 Removal of the Historical Battery Crosby Road Entrance**

As construction of the entrance for the new road proceeded, excavation and removal of the historical entrance was performed. The former entry road surface was removed to allow the new road surface grade to be constructed. Additionally, the design plans required a minimum of two feet of dune sand cover in the area of the former historical entrance.

A ramp of imported Class II aggregate base rock had been placed at the historical entrance during the remedial excavation work to allow semi-truck access to the site for hauling away

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<sup>1</sup> Relative compaction refers to the in-place dry density of soil expressed as a percentage of the maximum dry density of the same material as determined by the ASTM D1557-00 laboratory compaction procedure.

wastes. The initial plan had been to reuse the ramp material for roadway subgrade material. Therefore on 28 January 2005, a four-point composite waste characterization sample (COMP BB3-RA\B) of the ramp material was collected (BB3-RA\BA through BB3-RA\BD) (Figure 3). The hydrocarbon concentrations reported for the sample were determined to exceed applicable site criteria. Therefore, the Class II aggregate base rock ramp was excavated and removed from the site. The analytical laboratory reports from the ramp sampling are included in Appendix A.

Following the removal of the temporary truck ramp, the chert road material in the area of the historical entrance was removed (Photo 18). To achieve the required dune sand fill depth, additional chert road material was removed. Localized areas of chert road material in excess of four feet thick were observed during excavation on the former historical entrance. The chert road material excavated during removal of the former historical entrance was stockpiled offsite at a storage location within the Presidio for potential future reuse. Approximately 270 yd<sup>3</sup> of chert material were removed from BBDA 3 (Table 3).

### **2.2.2.3 Roadway Construction**

As the new entrance construction neared completion, work on constructing the new road began (Photo 19). Because of the previously described remediation and soil off-haul, almost the entire length of the new roadway had to be re-constructed. A single remnant of the historical Battery Crosby Road roadway remained after the remedial work and was therefore kept intact (Figure 4).

In accordance with the Design Drawings, a roadway drainage V-ditch, collection DI, and storm drain pipe and outfall were installed within the upper 250 feet of the road. This system, along with the designed 2% camber of the road towards the V-ditch was installed to provide erosion control by diverting surface water runoff from the roadway away from the ravine slopes.

The V-ditch was constructed along the eastern edge of the roadway. It extends from the new Battery Crosby Road entrance to the new DI located at the westward turn in the road approximately 250 feet from the entrance (Figure 4). The V-ditch is lined with polypropylene fiber matrix geotextile (North American Green P300) (Photo 20). A buried storm drain pipe and outfall were installed to discharge runoff from the DI. The storm drain was constructed of approximately 85 feet of 12-inch diameter Acrylonitrile Butadiene Styrene (ABS) pipe. The storm drain outfall consists of two, 15-foot long laterals of 12-inch diameter perforated ABS pipe (Photos 21 and 22). The ends of the perforated pipes were capped.

The new road subgrade was re-constructed by placing up to 18-inches of imported dune sand to achieve the design subgrade elevation (Photo 23). The road fill was roller compacted and the relative compaction checked prior to the placement of geotextile fabric (MARAFI 600X) and roadway edge boards (Photo 24). A summary of the compaction testing results is included in Appendix D. With the edge boards installed, imported Class II aggregate base rock was placed and compacted to create the road base (Photo 25). Approximately 90 yd<sup>3</sup> of Class II aggregate base rock was used to construct the road base of the new road (Table 3). The new road

base was graded to transition into the remaining section of the historical Battery Crosby Road (Photo 26). The roadway section was completed using a 3-inch layer of roller compacted chert material (Photo 27). Approximately 49 yd<sup>3</sup> of chert material salvaged from the historical Battery Crosby Road (Section 1.2) was used to complete the roadway section and provide the final roadway surface.

Where the new road intersects with Lincoln Boulevard, the first 8 feet of road was completed by placing and compacting Class II aggregate base rock with an asphalt road surface (Photos 28 through 30). The pedestrian footpath along Lincoln Boulevard was repaired locally to remove rills. The footpath was backfilled with salvaged chert material graded to match the elevation of the asphalt entrance apron and to direct surface water runoff away from the roadway entrance (Photo 31). To prevent unauthorized vehicle access to Battery Crosby, the design drawings provided for the installation of wooden bollards at the intersection of Battery Crosby Road and Lincoln Boulevard (Figure 4). Three 3-foot tall, 8-inch diameter pressure treated wooden bollards were installed (Photo 32). The outer two bollards are fixed, concreted in place, while the center bollard is removable and secured with a lock and chain.

The final item for the road construction was the installation of post-and-cable fencing (Photo 33). A three-strand wire post-and-cable fence backed by galvanized wire mesh fencing was installed along the western edge of the road (Photo 34). The fence extends from the new entrance to Battery Crosby. A single gate opening was installed in the fence near Battery Crosby.

A second fence was constructed near the toe of the ravine and consists of approximately 50 feet of three-strand post-and-cable fence. (Figure 4). This fence is intended to discourage public access from the beach to the sensitive habitat of the ravine.

Variances from the approved Design Drawings are noted on the Revised As-Built Design Drawings which are included in Appendix B. One variance of the approved road design which is not included on the Revised As-Built Design Drawings is the elimination of the installation of post-and-cable fencing along the upper 100 feet of the eastern side of the new road. The installation of this section of fence was originally stipulated in the NPS road design concurrence letter dated 23 November 2005. A field decision was reached between Ms. Jennifer Yata, Trust Environmental Project Manager and Mr. Lewis Stringer, NPS Plant Specialist to omit the installation of this section of fencing. It was agreed, at the initiation of Mr. Stringer, that the area in the vicinity of the proposed fencing would be more esthetically pleasing and would facilitate planting and plant care if the fencing was not installed in this area.

On 23 February 2006, a field inspection site walk was attended by: Ms. Jennifer Yata, Trust Environmental Project Manager; Ms. Andrea Lucas and Mr. Lewis Stringer, NPS Natural Resource personnel; Mr. Michael Chamberlain, Treadwell & Rollo Site Geologist; Mr. Wendell Minshew, Minshew Engineering, Engineer of Record; and Mr. Clarence Cleaver, Perf-Ex Site Foreman.

#### **2.2.2.4 Re-vegetation**

Full native vegetation restoration planting at BBDA 3 is being performed by NPS personnel and volunteers (Photo 35). These activities are ongoing and will continue periodically as needed and at the discretion and direction of NPS.



### **3.0 SUMMARY AND CONCLUSIONS**

Between 7 December 2005 and 23 February 2006, construction of the new access road for to Battery Crosby was performed. The construction of the re-aligned roadway followed the completion of the remedial action activities at BBDA 3. The new road provides an ADA compliant pathway for public access to Battery Crosby. The approved design required relocation of the historical entrance for Battery Crosby Road, such that a roadbed with a grade lowered to ADA compliant requirements could be constructed. Approximately 510 yd<sup>3</sup> of imported dune sand, 90 yd<sup>3</sup> of virgin quarried Class II aggregate base rock, and 49 yd<sup>3</sup> of chert material salvaged from the historical Battery Crosby Road were used during the construction activities. In addition to the construction of the new roadway, other site improvements included a roadway drainage system and new post-and-cable fencing.

BBDA 3 has been previously recommended for remedial construction completion (Treadwell & Rollo, 2005). All construction activities at the site have now been completed. Groundwater and seep monitoring will continue per the RAP for three years as part of the Presidio-wide Groundwater Monitoring Program. The data will then be reviewed to determine whether applicable cleanup levels have been achieved and monitoring is considered complete.

#### 4.0 REFERENCES

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Treadwell & Rollo, Inc. (Treadwell & Rollo), 2004a. *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4*. March.

Treadwell & Rollo, 2004b. *Slope Stability Evaluation Report for Baker Beach Disturbed Area 3*. May.

Treadwell & Rollo, 2004c. *Work Plan to Implement the Remedial Action Plan for Baker Beach Disturbed Areas 3 and 4*. May.

Treadwell & Rollo, 2004d. *Technical Memorandum: Historical Battery Crosby Road and Lead Exploratory Test Pit Excavation Observations and Results*. March.

Treadwell & Rollo, 2005. *Construction Completion Report for Baker Beach Disturbed Areas 3 and 4*. August.

## **TABLES**

Table 1  
Analytical Results of  
Battery Crosby Road Construction Materials  
Baker Beach Disturbed Area 3  
Presidio of San Francisco, California

| Chemical Analyte   | Dune Sand Stockpile Composite Samples |                                       |                             | Salvaged<br>Chert Road Fill<br>BB3 COMP<br>(mg/kg) | Quarried Class II<br>Aggregate Base rock<br>BB3 A/B COMP2<br>(mg/kg) | Soil<br>Cleanup Level<br>(mg/kg)   |   |  |   |
|--|---------------------------------------|---------------------------------------|-----------------------------|--|--|--|---|--|---|
|  | GA9SSCOMP501-504<br>(mg/kg)           | DUP073004-GA9SSCOMP501-504<br>(mg/kg) | GA9SSCOMP505-508<br>(mg/kg) |  |  | Residential -<br>Serpentine<br>Ecological -<br>Special Status <sup>1</sup> | Residential -<br>Colma<br>Ecological -<br>Special Status <sup>1</sup> | Residential -<br>Beach/Dune<br>Ecological -<br>Special Status <sup>1</sup> | Residential -<br>Chert<br>Ecological -<br>Special Status <sup>2</sup> |
| Inorganic Chemicals (Methods 6010/6020)                      |                                       |                                       |                             |  |  |  |   |  |   |
| Antimony   | --                                    | --                                    | --                          | <2.4   | <2.0   | 5.0  | 5.0   | 5.0  | 5.0   |
| Arsenic  | --                                    | --                                    | --                          | 4.3  | 4.7  | 5.4  | 6.2   | 5.9  | 3.2   |
| Barium   | --                                    | --                                    | --                          | 390  | 190  | 320  | 320   | 320  | 900   |
| Beryllium  | --                                    | --                                    | --                          | 0.66   | <0.5   | 10   | 10  | 10   | 10  |
| Cadmium  | --                                    | --                                    | --                          | 0.69   | 0.95   | 1.9  | 0.8   | 1.7  | 1.7   |
| Chromium (Cr(VI) & Cr(III))                                  | --                                    | --                                    | --                          | 46   | 6.1  | 1,700  | 140   | 120  | 41  |
| Cobalt   | --                                    | --                                    | --                          | 17   | 5.8  | 170  | 21  | 20   | 37  |
| Copper   | --                                    | --                                    | --                          | 110  | 0.5  | 85   | 49  | 43   | 360   |
| Lead   | 1.8                                   | 1.6                                   | 1.6                         | 22   | 9.0  | 160  | 160   | 160  | 160   |
| Molybdenum   | --                                    | --                                    | --                          | 0.96   | 1.3  | 12   | 12  | 12   | 12  |
| Nickel   | --                                    | --                                    | --                          | 61   | 14   | 4,500  | 110   | 70   | 71  |
| Selenium   | --                                    | --                                    | --                          | <0.20  | <2.0   | 0.5  | 0.5   | 0.75   | 0.5   |
| Silver   | --                                    | --                                    | --                          | <0.20  | <0.99  | 2.0  | 2.0   | 2.0  | 2.0   |
| Thallium   | --                                    | --                                    | --                          | <0.20  | <0.99  | 1.0  | 1.0   | 1.0  | 1.0   |
| Vanadium   | --                                    | --                                    | --                          | 42   | 7.6  | 74   | 90  | 92   | 61  |
| Zinc   | --                                    | --                                    | --                          | 58   | 42   | 160  | 60  | 66   | 120   |
| PCBs, Pesticides, and Herbicides (Methods 8081, 8082 & 8150) |                                       |                                       |                             |  |  |  |   |  |   |
| PCBs (Aroclor 1254)  | <0.012                                | <0.012                                | <0.012                      | <0.010   | --   | 0.033  | 0.033   | 0.033  | 0.033   |
| Aldrin   | <0.0017                               | <0.0017                               | <0.0018                     | <0.0018  | <0.002   | 0.0039   | 0.0039  | 0.0039   | 0.0039  |
| alpha-BHC  | <0.0017                               | <0.0017                               | <0.0018                     | <0.0018  | <0.002   | 0.062  | 0.062   | 0.062  | 0.062   |
| beta-BHC   | <0.0017                               | <0.0017                               | <0.0018                     | <0.0018  | <0.002   | 0.062  | 0.062   | 0.062  | 0.062   |
| delta-BHC  | <0.0017                               | <0.0017                               | <0.0018                     | <0.0018  | <0.002   | 0.062  | 0.062   | 0.062  | 0.062   |
| Chlordane*   | <0.0034                               | <0.0034                               | <0.0036                     | 0.0026 J   | <0.004   | 0.0090   | 0.0090  | 0.0090   | 0.0090  |
| 4,4'-DDD   | <0.0033                               | <0.0034                               | <0.0034                     | <0.0036  | <0.002   | 0.049  | 0.049   | 0.049  | 0.049   |
| 4,4'-DDE   | <0.0033                               | <0.0034                               | <0.0034                     | <0.0036  | <0.002   | 0.098  | 0.098   | 0.098  | 0.098   |
| 4,4'-DDT   | <0.0033                               | <0.0034                               | <0.0034                     | 0.0056   | <0.002   | 0.0082   | 0.0082  | 0.0082   | 0.0082  |
| Dieldrin   | <0.0033                               | <0.0034                               | <0.0034                     | <0.0036  | <0.002   | 0.030  | 0.030   | 0.030  | 0.030   |
| Endosulfan   | <0.0033                               | <0.0034                               | <0.0034                     | --   | --   | 1.1  | 1.1   | 1.1  | 1.1   |
| Endosulfan Sulfate   | <0.0033                               | <0.0034                               | <0.0034                     | <0.0036  | <0.002   | 1.1  | 1.1   | 1.1  | 1.1   |
| Endrin   | <0.0033                               | <0.0034                               | <0.0034                     | <0.0036  | <0.002   | 0.004  | 0.004   | 0.004  | 0.004   |
| gamma-BHC (Lindane)  | <0.0017                               | <0.0017                               | <0.0018                     | 0.0051   | <0.002   | 0.010  | 0.010   | 0.010  | 0.010   |
| Heptachlor   | <0.0017                               | <0.0017                               | <0.0018                     | <0.0018  | <0.002   | 0.017  | 0.017   | 0.017  | 0.017   |
| Heptachlor Epoxide   | <0.0017                               | <0.0017                               | <0.0018                     | <0.0018  | <0.002   | 0.017  | 0.017   | 0.017  | 0.017   |
| Methoxychlor   | <0.0017                               | <0.0017                               | <0.0018                     | <0.018   | <0.002   | 0.44   | 0.44  | 0.44   | 0.44  |
| Petroleum Hydrocarbons<br>(Method 8015 Modified)             |                                       |                                       |                             |  |  |  |   |  |   |
| TPH as gasoline (C <sub>7</sub> - C <sub>12</sub> )          | <1.0                                  | <0.97                                 | <1.0                        | --   | --   | 610  | 610   | 610  | 610   |
| TPH as diesel (C <sub>12</sub> - C <sub>24</sub> )           | <1.0                                  | <1.0                                  | <1.0                        | --   | 7.4  | 700  | 700   | 700  | 700   |
| TPH as fuel oil (C <sub>24</sub> - C <sub>36</sub> )         | <5.1                                  | <5.1                                  | <5.1                        | --   | <50  | 980  | 980   | 980  | 980   |

Notes

mg/kg - milligrams per kilogram

-- Analysis Not Requested

\* Sum of the reported concentrations for alpha-Chlordane and gamma-Chlordane

Shading indicates target cleanup levels.

<sup>1</sup> Cleanup levels for soil are based on the most stringent of the values for protection of human health (recreational or residential land use), protection of ecological receptors (ecological special status species and terrestrial receptors), and maintaining drinking water standards in groundwater (soils greater than 5 feet above groundwater). In the case of metals, if the background concentration for a particular lithology (Serpentine, Colma, or Beach/Dune Sand, as noted) is greater than the most stringent cleanup level, then the background concentration applies as the cleanup level. Source: Table 7-2 (non-petroleum compounds) and Table 7-5 (petroleum hydrocarbons and constituents) in the Cleanup Levels Document (EKI, 2002).

<sup>2</sup> Cleanup levels for serpentine, Colma, and beach/dune sand have been approved in the RAP (Treadwell & Rollo, 2004a). Cleanup levels for chert have been derived from the Clean Levels Document (EKI, 2002).

**Table 2**  
**Battery Crosby Road Construction Timeline**  
**Baker Beach Disturbed Areas 3**  
Presidio of San Francisco, California

| <b>Date</b>                             | <b>Action/Event</b>   |
|---|---|
| 18-Mar-04                               | Remedial Action Plan approved by DTSC.  |
| 9-Jun-04                                | Notice to Proceed issued to Perf-Ex.  |
| 1-Jul-04                                | Begin removing waste from slope of BBDA 3.  |
| 8-Jul-04                                | First truck load waste out Class I to Buttonwillow.   |
| 30-Jul-04                               | Graded Area 9 imported sand stockpile sampled (GA9SS-COMP501-504, GA9SS-505-508).   |
| 18-Oct-04                               | Begin exposing historical Battery Crosby Rd.  |
| 3-Nov-04                                | Excavate 2 trenches to map limits of historical Battery Crosby Rd.  |
| 16-Nov-04                               | Salvaged chert stockpile sampled (BB3COMP).   |
| 15-Dec-04                               | Excavate and remove section of historical Battery Crosby Rd. that failed cleanup criteria.  |
| 5-Jan-05                                | DTSC, Trust, NPS, T&R walk site to verify confirmation sampling results and document site cleanup criteria met. Sampling complete.                    |
| 18-Jan-05                               | Load out last truck of waste material.  |
| 28-Jan-05                               | Class II A/B entrance ramp sampled (COMP BB3-RA/B).   |
| 29-Aug-05                               | Draft <i>Construction Completion Report, Baker Beach Disturbed Areas 3 and 4</i> , dated 23 August 2005 submitted to DTSC for review.                 |
| 23-Nov-05                               | NPS Battery Crosby Rd. design concurrence.  |
| <b>Battery Crosby Road Construction</b> |   |
| 7-Dec-05                                | Pref-Ex prepares site for earth work.   |
| 13-Dec-05                               | Perf-Ex mobilizes equipment and begins grubbing slope for new road entrance. RW Davis survey pre-construction roadway alignment and grade elevations. |
| 14-Dec-05                               | Begin import of sand for relocated road entrance construction. Dutra Quarry Class II A/B sampled (BB3A/B COMP2).                                      |
| 16-Dec-05                               | Complete extending storm drain outfall pipe from Lincoln Avenue.  |
| 6-Jan-06                                | New road entrance construction with import sand and geogrid complete. Install new road drain invert, pipe and outfall.                                |
| 9-Jan-06                                | Begin placing import sand roadfill to sub-grade elevation.  |
| 12-Jan-06                               | Set road edge boards and geotextile fabric.   |
| 16-Jan-06                               | Place import aggregate road base.   |
| 19-Jan-06                               | Construct roadside drainage V-ditch.  |
| 23-Jan-06                               | Begin installation of post-and-cable fence.   |
| 25-Jan-06                               | Complete removal of the historical Battery Crosby Rd entrance and recontour footpath.   |
| 13-Feb-06                               | Begin installation of Geocell slope protection.   |
| 15-Feb-06                               | Complete Geocell installation.  |
| 16-Feb-06                               | Begin final entrance apron and footpath construction.   |
| 22-Feb-06                               | Perf-EX de-mobilizes last of heavy equipment.   |
| 23-Feb-06                               | Site walk with Trust, NPS, T&R, and PerfEx.   |

**Table 3**  
**Summary of Construction Materials and Waste Quantities**  
**Baker Beach Disturbed Area 3**  
Presidio of San Francisco, California

| Material  | Quantity<br>(cubic yards) |
|---|---------------------------|
| <b>Class II Aggregate Base Rock Import</b><br>Remediation Work Truck Access Ramp<br>Stockpiled Presidio       | 120 <sup>1</sup>          |
| <b>Green Waste / Trash Disposal</b><br>West Contra Costa Landfill<br>Richmond CA                              | 64 <sup>2</sup>           |
| <b>Class III Soil Disposal</b><br>BFI Ox Mountain Sanitary Landfill<br>Half Moon Bay, CA                      | 27                        |
| <b>Salvaged Chert Road Material Removed</b><br>Historical Battery Crosby Road Entrance<br>Stockpiled Presidio | 270 <sup>3</sup>          |
| <b>Quantity Removed from Site</b>   | <b>481</b>                |
| <b>Class II Aggregate Base Rock Import</b><br>Dutra Quarry<br>Richmond CA                                     | 90                        |
| <b>Imported Dune Sand</b><br>Graded Area 9 Stockpile<br>Presidio  | 510 <sup>3</sup>          |
| <b>Salvaged Chert Road Surface Material</b><br>Historical Battery Crosby Road<br>Presidio                     | 49 <sup>3</sup>           |
| <b>Quantity Imported to Site</b>  | <b>649</b>                |

Notes

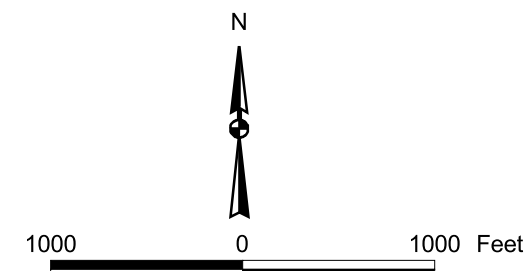
<sup>1</sup> Volume based on truck count using a conversion factor of 20 cubic yards per truck.

<sup>2</sup> Volume in cubic yards for waste stream is calculated by using a conversion factor of 1.3 (units of tons per cubic yard).

<sup>3</sup> Volume based on truck count using a conversion factor of 10 cubic yards per truck.

## FIGURES

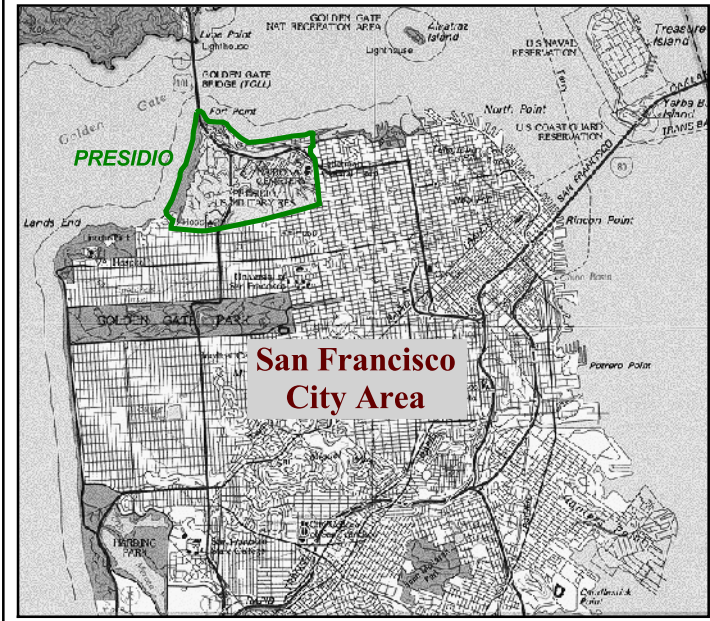




**LEGEND**

- Area A and B Boundary
- ..... Approximate Site Boundary

Notes:  
Area A Stewardship by the National Park Service  
Area B Stewardship by the Presidio Trust



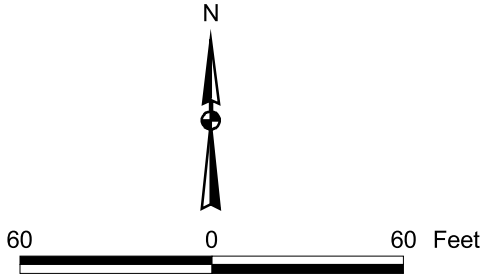
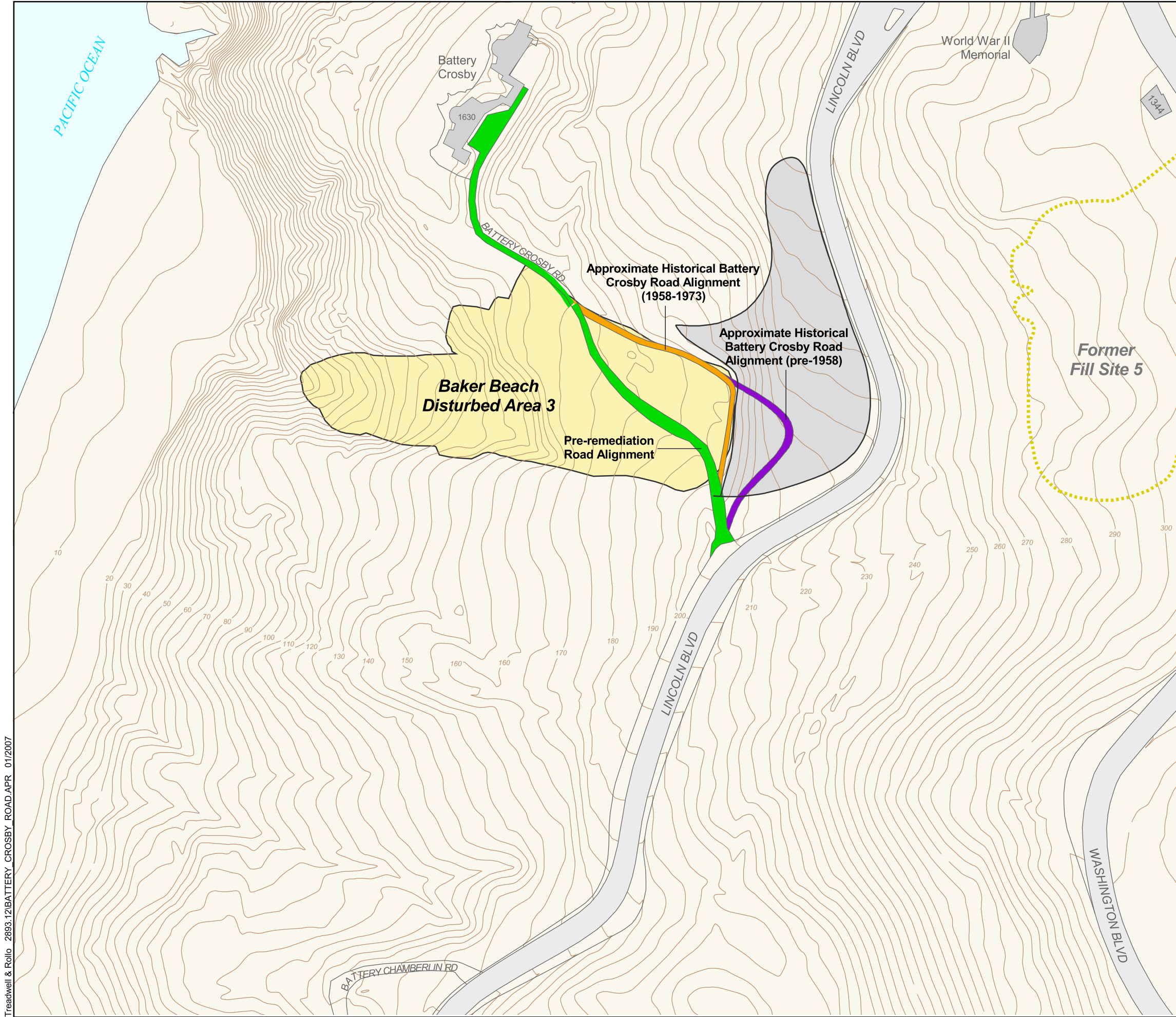
**SITE LOCATION MAP**

**Treadwell&Rollo**



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January 2007





- LEGEND**
- Topographic Contour Pre-Excavation (Contour Interval : 5 ft)
  - Generalized Disturbed Area (Excavated Area)
  - Generalized Disturbed Area Suspected to Have No Chemicals of Concern in Soil
  - 1630 Building and Number

Notes:  
Former Fill Site 5 was excavated in Spring 2003 and documented in Treadwell & Rollo's Draft Construction Completion Report Landfill 4 and Fill Site 5, November 2004.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.  
Vertical Datum: (topography) North American Vertical Datum, NAVD88.

**HISTORICAL BATTERY CROSBY ROAD ALIGNMENTS**

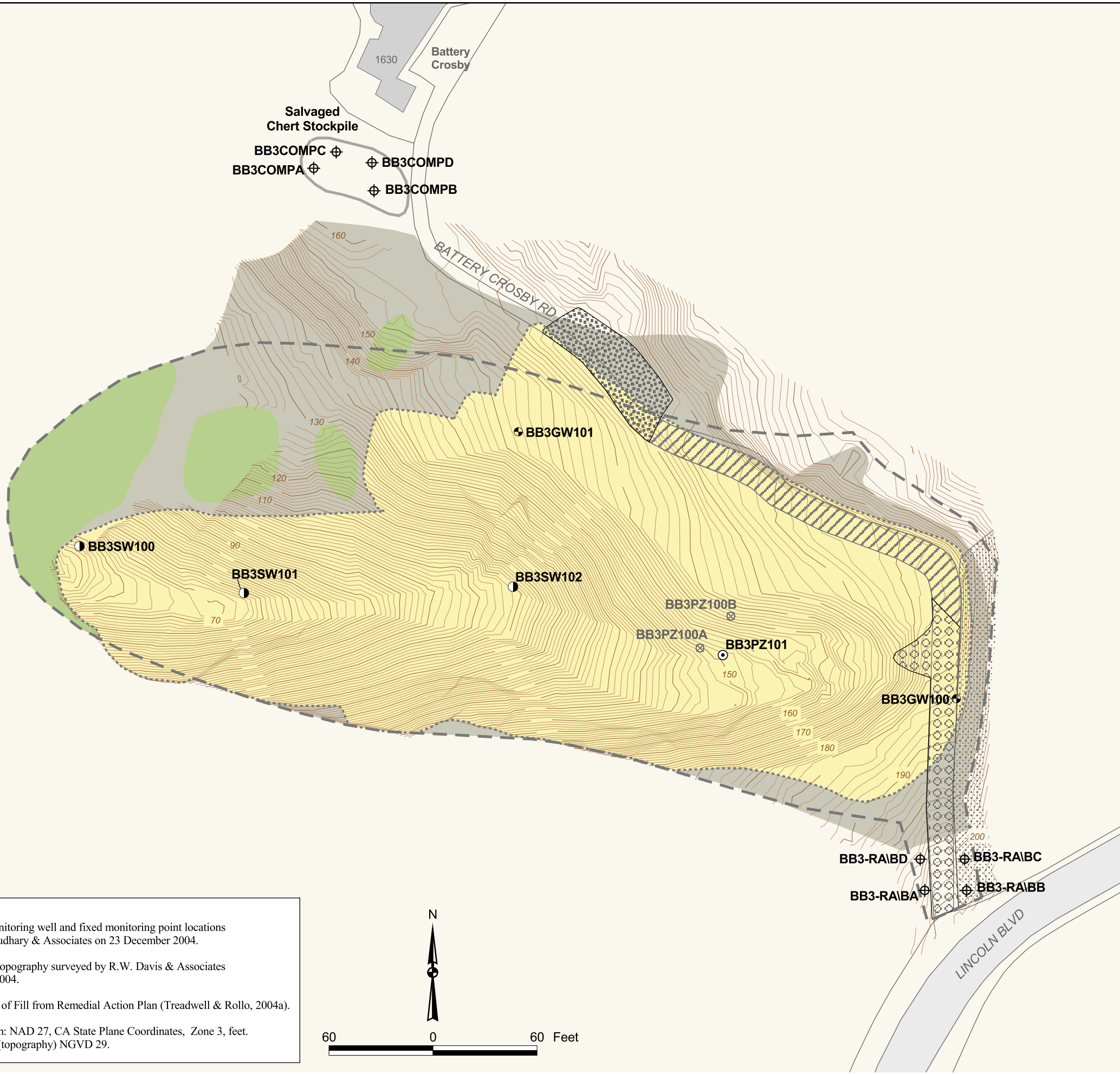
**Treadwell&Rollo**



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**FIGURE 2**

Treadwell & Rollo 2893.12\BATTERY\_CROSBY\_ROAD.APR 01/2007



Notes:  
Groundwater monitoring well and fixed monitoring point locations surveyed by Chaudhary & Associates on 23 December 2004.

Post-excavation topography surveyed by R.W. Davis & Associates on 2 December 2004.

Estimated Limits of Fill from Remedial Action Plan (Treadwell & Rollo, 2004a).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.  
Vertical Datum: (topography) NGVD 29.

- LEGEND**
- ⊕ **BB3COMPA** Waste Characterization Sample Location
  - ⊕ **BB3GW100** Groundwater monitoring well
  - ⊙ **BB3PZ101** Piezometer
  - **BB3SW100** Fixed surface water monitoring point
  - ⊗ **BB3PZ100A** Abandoned Temporary Piezometer
  - Limits of Excavation (approximate)
  - - - Estimated Limits of Fill
  - Topographic Contour Post-Excavation  
(Contour Interval : 5 ft)  
(Contour Interval : 1 ft)
  - Section of removed Historical Battery Crosby Road
  - Fill Sand
  - Pre-1958 Road Fill
  - 1958-1973 Road Fill
  - Limits of Excavated Fill
  - Approximate limits of remaining native vegetation; delineated in field by NPS representative.
  - Approximate limits of stripped vegetation
  - 1630 Building and Number

**BAKER BEACH DISTURBED AREA 3  
POST-REMEDATION CONSTRUCTION  
SITE PLAN**

**Treadwell&Rollo**

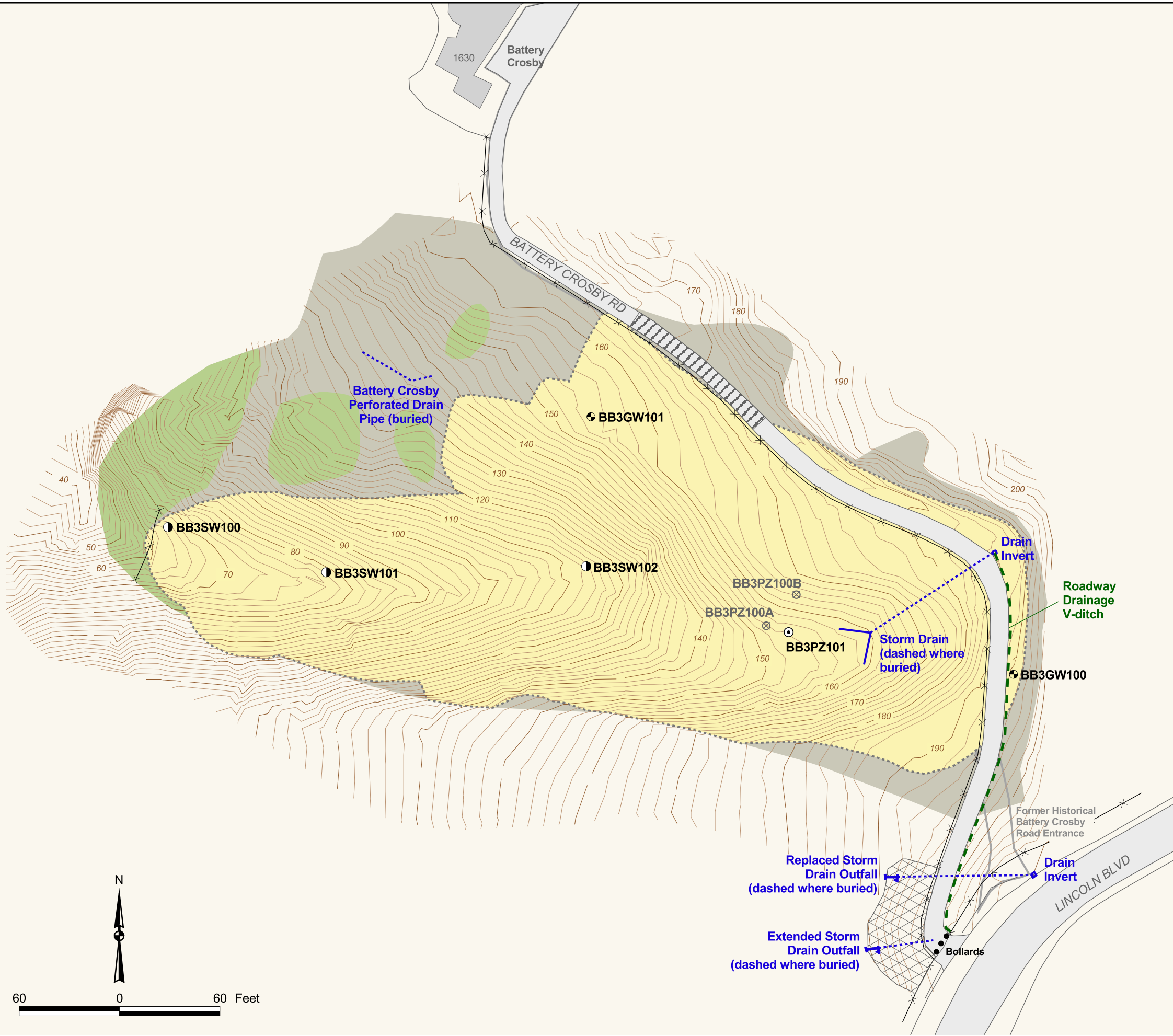


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**FIGURE 3**



Treadwell & Rollo 2893.12BATTERY\_CROSBY\_ROAD.APR 01/2007



# LEGEND

- **BB3GW100** Groundwater monitoring well
- **BB3PZ101** Piezometer
- **BB3SW100** Fixed surface water monitoring point
- ⊗ **BB3PZ100A** Abandoned Temporary Piezometer
- Limits of Excavation (approximate)
- Topographic Contour Post-Excavation  
(Contour Interval : 10 ft)  
(Contour Interval : 2 ft)
- Historical Section of Battery Crosby Road  
(remained throughout construction)
- Geocell Slope Protection
- Limits of Excavated Fill
- Approximate limits of remaining native vegetation;  
delineated in field by NPS representative.
- Approximate limits of stripped vegetation
- 1630 Building and Number

Notes:  
Final confirmation topography surveyed by R.W. Davis & Associates  
on 7 March 2006.

Limits of excavation and vegetation from Construction Completion  
Report (Treadwell & Rollo, 2005).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.  
Vertical Datum: (topography) NAVD88.

## FINAL BAKER BEACH DISTURBED AREA 3 TOPOGRAPHY AND BATTERY CROSBY ROAD CONFIGURATION

# Treadwell&Rollo



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## FIGURE 4

## **PHOTOGRAPHS**



Photo 1: Battery Crosby Road Prior to Remediation



Photo 2: Battery Crosby Road After Completion of Remediation





Photo 3: Location of the Historical Battery Crosby Road Entrance During Remedial Construction Prior to Realignment



Photo 4: Remaining Portion of Historical Battery Crosby Road (center)



Photo 5: Slope Grubbing for Relocated Battery Crosby Road Entrance



Photo 6: Extension of Storm Drain Outfall from Northbound Lincoln Boulevard





Photo 7: Replacement and Extension of Storm Drain Outfall from Southbound Lincoln Boulevard



Photo 8: Transite Drain Pipe Removed from Former Southbound Lincoln Boulevard Storm Drain Outfall





Photo 9: Placement and Compaction of Imported Sand Over Storm Drain Extension



Photo 10: Placement of Bi-Axial Geogrid



Photo 11: Building Up New Battery Crosby Road Entrance with Sand and Geogrid



Photo 12: Placement of Geocell Anchors and Tendons





Photo 13: Securing a Geocell Panel

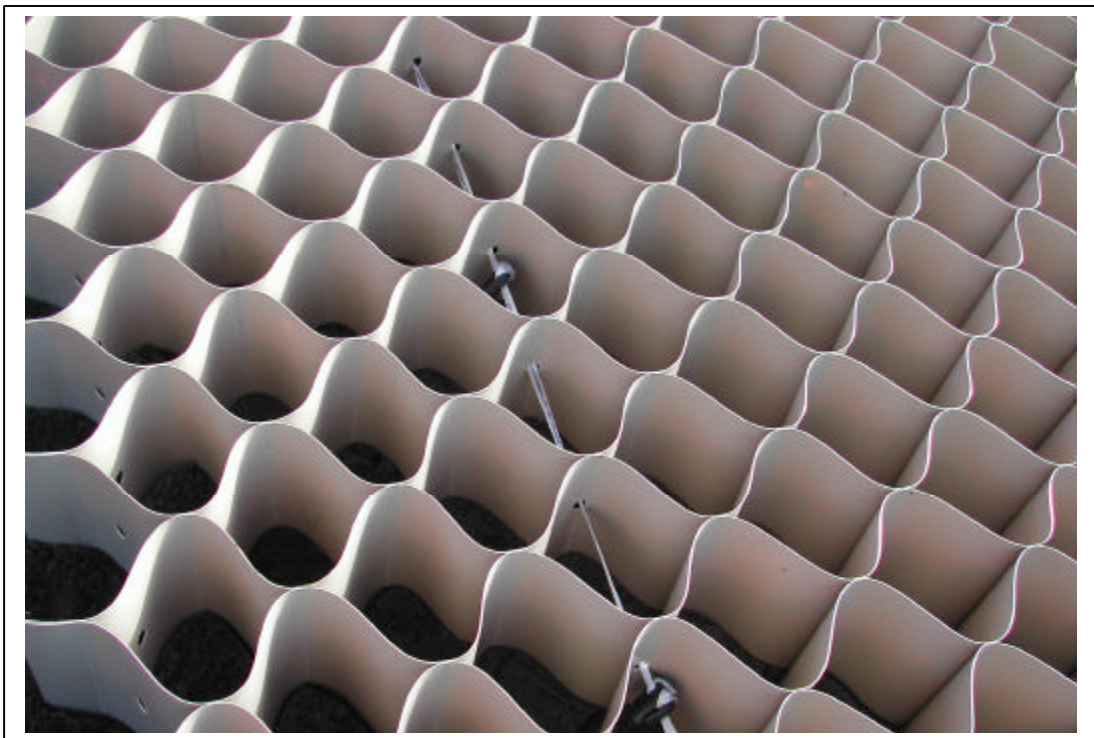


Photo 14: Tendon Secured with J-Hooks within Geocell



Photo 15: Four Tapered Geocell Panels in Position on Slope



Photograph 16: Backfilling of Geocell Panels





Photo 17: Final Slope of New Battery Crosby Road Entrance



Photo 18: Removal of Historical Battery Crosby Road Entrance



Photo 19: Former Historical Battery Crosby Road Entrance After Road Realignment



Photo 20: Construction of Drainage V-Ditch along Eastern Side of Battery Crosby Road





Photo 21: Installation of New Drain Inlet and Storm Drain



Photo 22: New Storm Drain Out Fall Complete



Photo 23: Placement of Imported Sand Road Base Fill



Photo 24: Geotextile Fabric and Edge Board Installation





Photo 25: Placement and Compaction of Imported Aggregate Road Base



Photo 26: New Road Graded to Match Historical Battery Crosby Road Section



Photo 27: Placed and Compacted Salvaged Chert Road Surface Material



Photo 28: Construction of New Battery Crosby Road Entrance





Photo 29: Placement and Compaction of New Entrance Base Rock



Photo 30: Placement of Hot Asphalt for Road Entrance Apron



Photo 31: Repaired Footpath to Aid Site Erosion Control



Photo 32: Installed Bollards at New Road Entrance





Photo 33: Drilling and Setting of the Post-and-Cable Fence Posts



Photo 34: Post-and-Cable Fence Under Construction



Photo 35: Volunteers Planting Vegetation on New Road Entrance Slope

**APPENDIX A**  
**Laboratory Reports for Road Construction Materials and *Draft Final Letter Report,***  
***Sampling and Testing, Imported Dune Sand***  
(Geologica, Inc., 30 August 2004)

**CD**



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 176111

Treadwell & Rollo  
555 Montgomery Street  
San Francisco, CA 94111

Project#: 2893.12  
Location: Presidio Baker Beach 3

| <u>Sample ID</u> | <u>Lab ID</u> |
|------------------|---------------|
| BB3COMPA         | 176111-001    |
| BB3COMPB         | 176111-002    |
| BB3COMPC         | 176111-003    |
| BB3COMPD         | 176111-004    |
| BB3 COMP         | 176111-005    |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: \_\_\_\_\_

Operations Manager

Date: \_\_\_\_\_

12/1/04

Signature: \_\_\_\_\_

Project Manager

Date: \_\_\_\_\_

11/30/04



## CASE NARRATIVE

Laboratory number: 176111  
Client: Treadwell & Rollo  
Project: 2893.12  
Location: Presidio Baker Beach 3  
Request Date: 11/17/04  
Samples Received: 11/17/04

This hardcopy data package contains sample and QC results for one four-point soil composite, requested for the above referenced project on 11/17/04. The samples were received cold and intact.

### Pesticides (EPA 8081A):

High response was observed for heptachlor in the CCV analyzed 11/19/04 05:16; average CCV drift met method requirements. No other analytical problems were encountered.

### PCBs (EPA 8082):

High recoveries were observed for Aroclor-1254 in the MS/MSD for batch 96627; the parent sample was not a project sample, the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated sample. High surrogate recoveries were observed for decachlorobiphenyl and TCMX in the MS/MSD for batch 96627; the parent sample was not a project sample. No other analytical problems were encountered.

### Metals (EPA 6010B and EPA 7470A):

Low recoveries were observed for antimony in the MS/MSD for batch 96610; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. Response exceeding the instrument's linear range was observed for iron in the MS/MSD for batch 96610. No other analytical problems were encountered.

### Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

## Chain of Custody

4

## **PESTICIDES**

### Organochlorine Pesticides

|           |                   |           |                        |
|-----------|-------------------|-----------|------------------------|
| Lab #:    | 176111            | Location: | Presidio Baker Beach 3 |
| Client:   | Treadwell & Rollo | Prep:     | EPA 3545               |
| Project#: | 2893.12           | Analysis: | EPA 8081A              |
| Field ID: | BB3 COMP          | Batch#:   | 96630                  |
| Lab ID:   | 176111-005        | Sampled:  | 11/17/04               |
| Matrix:   | Soil              | Received: | 11/17/04               |
| Units:    | ug/Kg             | Prepared: | 11/18/04               |
| Basis:    | dry               | Analyzed: | 11/18/04               |
| Diln Fac: | 1.000             |           |                        |

Moisture: 8%

Cleanup Method: EPA 3620B

| Analyte               | Result | RL  | MDL  |
|-----------------------|--------|-----|------|
| alpha-BHC             | ND     | 1.8 |      |
| beta-BHC              | ND     | 1.8 |      |
| gamma-BHC             | 5.1    | 1.8 |      |
| delta-BHC             | ND     | 1.8 |      |
| Heptachlor            | ND     | 1.8 |      |
| Aldrin                | ND     | 1.8 |      |
| Heptachlor epoxide    | ND     | 1.8 |      |
| Endosulfan I          | ND     | 1.8 |      |
| Dieldrin              | ND     | 3.6 |      |
| 4,4'-DDE              | ND     | 3.6 |      |
| Endrin                | ND     | 3.6 |      |
| Endosulfan II         | ND     | 3.6 |      |
| Endosulfan sulfate    | ND     | 3.6 |      |
| 4,4'-DDD              | ND     | 3.6 |      |
| Endrin ketone         | ND     | 3.6 |      |
| 4,4'-DDT              | 5.6    | 3.6 |      |
| Chlordane (Technical) | ND     | 32  |      |
| alpha-Chlordane       | 1.2 J  | 1.8 | 0.54 |
| gamma-Chlordane       | 1.4 J  | 1.8 | 0.51 |
| Methoxychlor          | ND     | 18  |      |
| Toxaphene             | ND     | 65  |      |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 123  | 65-135 |
| Decachlorobiphenyl | 94   | 65-135 |

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

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# Batch QC Report

| Organochlorine Pesticides |                   |           |                        |
|---------------------------|-------------------|-----------|------------------------|
| Lab #:                    | 176111            | Location: | Presidio Baker Beach 3 |
| Client:                   | Treadwell & Rollo | Prep:     | EPA 3545               |
| Project#:                 | 2893.12           | Analysis: | EPA 8081A              |
| Type:                     | BLANK             | Diln Fac: | 1.000                  |
| Lab ID:                   | QC272837          | Batch#:   | 96630                  |
| Matrix:                   | Soil              | Prepared: | 11/18/04               |
| Units:                    | ug/Kg             | Analyzed: | 11/18/04               |
| Basis:                    | as received       |           |                        |

Cleanup Method: EPA 3620B

| Analyte               | Result | RL  | MDL  |
|-----------------------|--------|-----|------|
| alpha-BHC             | ND     | 1.7 |      |
| beta-BHC              | ND     | 1.7 |      |
| gamma-BHC             | ND     | 1.7 |      |
| delta-BHC             | ND     | 1.7 |      |
| Heptachlor            | ND     | 1.7 |      |
| Aldrin                | ND     | 1.7 |      |
| Heptachlor epoxide    | ND     | 1.7 |      |
| Endosulfan I          | ND     | 1.7 |      |
| Dieldrin              | ND     | 3.3 |      |
| 4,4'-DDE              | ND     | 3.3 |      |
| Endrin                | ND     | 3.3 |      |
| Endosulfan II         | ND     | 3.3 |      |
| Endosulfan sulfate    | ND     | 3.3 |      |
| 4,4'-DDD              | ND     | 3.3 |      |
| Endrin ketone         | ND     | 3.3 |      |
| 4,4'-DDT              | ND     | 3.3 |      |
| Chlordane (Technical) | ND     | 30  |      |
| alpha-Chlordane       | ND     | 1.7 | 0.49 |
| gamma-Chlordane       | ND     | 1.7 | 0.55 |
| Methoxychlor          | ND     | 17  |      |
| Toxaphene             | ND     | 60  |      |

| Surrogate          | %REC | Limit  |
|--------------------|------|--------|
| TCMX               | 77   | 65-135 |
| Decachlorobiphenyl | 104  | 65-135 |

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

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Batch QC Report

| Organochlorine Pesticides |                   |           |                        |
|---------------------------|-------------------|-----------|------------------------|
| Lab #:                    | 176111            | Location: | Presidio Baker Beach 3 |
| Client:                   | Treadwell & Rollo | Prep:     | EPA 3545               |
| Project#:                 | 2893.12           | Analysis: | EPA 8081A              |
| Type:                     | LCS               | Diln Fac: | 1.000                  |
| Lab ID:                   | QC272838          | Batch#:   | 96630                  |
| Matrix:                   | Soil              | Prepared: | 11/18/04               |
| Units:                    | ug/Kg             | Analyzed: | 11/22/04               |
| Basis:                    | as received       |           |                        |

Cleanup Method: EPA 3620B

| Analyte    | Spiked | Result | %REC | Limits |
|------------|--------|--------|------|--------|
| gamma-BHC  | 16.69  | 15.42  | 92   | 65-135 |
| Heptachlor | 16.69  | 12.47  | 75   | 65-135 |
| Aldrin     | 16.69  | 16.70  | 100  | 65-135 |
| Dieldrin   | 16.69  | 16.31  | 98   | 65-135 |
| Endrin     | 16.69  | 17.85  | 107  | 65-135 |
| 4,4'-DDT   | 16.69  | 17.01  | 102  | 65-135 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 99   | 65-135 |
| Decachlorobiphenyl | 119  | 65-135 |

**Batch QC Report**

| Organochlorine Pesticides |                   |           |                        |
|---------------------------|-------------------|-----------|------------------------|
| Lab #:                    | 176111            | Location: | Presidio Baker Beach 3 |
| Client:                   | Treadwell & Rollo | Prep:     | EPA 3545               |
| Project#:                 | 2893.12           | Analysis: | EPA 8081A              |
| Field ID:                 | ZZZZZZZZZZ        | Batch#:   | 96630                  |
| MSS Lab ID:               | 176064-026        | Sampled:  | 11/15/04               |
| Matrix:                   | Soil              | Received: | 11/16/04               |
| Units:                    | ug/Kg             | Prepared: | 11/18/04               |
| Basis:                    | as received       | Analyzed: | 11/19/04               |
| Diln Fac:                 | 1.000             |           |                        |

Type: MS  
Lab ID: QC272839

Cleanup Method: EPA 3620B

| Analyte    | MSS Result | Spiked | Result  | %REC | Limits |
|------------|------------|--------|---------|------|--------|
| gamma-BHC  | <0.3300    | 16.77  | 16.94   | 101  | 65-135 |
| Heptachlor | <0.4900    | 16.77  | 14.76 # | 88   | 65-135 |
| Aldrin     | <0.9300    | 16.77  | 16.82   | 100  | 65-135 |
| Dieldrin   | <0.5000    | 16.77  | 17.74   | 106  | 65-135 |
| Endrin     | <0.6500    | 16.77  | 18.15   | 108  | 65-135 |
| 4,4'-DDT   | <1.800     | 16.77  | 16.13   | 96   | 65-135 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 98   | 65-135 |
| Decachlorobiphenyl | 110  | 65-135 |

Type: MSD  
Lab ID: QC272840

Cleanup Method: EPA 3620B

| Analyte    | Spiked | Result  | %REC | Limits | RPD | Lim |
|------------|--------|---------|------|--------|-----|-----|
| gamma-BHC  | 16.73  | 15.40   | 92   | 65-135 | 9   | 35  |
| Heptachlor | 16.73  | 13.71 # | 82   | 65-135 | 7   | 35  |
| Aldrin     | 16.73  | 15.97   | 95   | 65-135 | 5   | 35  |
| Dieldrin   | 16.73  | 17.85   | 107  | 65-135 | 1   | 35  |
| Endrin     | 16.73  | 18.88   | 113  | 65-135 | 4   | 35  |
| 4,4'-DDT   | 16.73  | 16.05   | 96   | 65-135 | 0   | 35  |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 92   | 65-135 |
| Decachlorobiphenyl | 118  | 65-135 |

#= CCV drift outside limits; average CCV drift within limits per method requirements

RPD= Relative Percent Difference



# INITIAL CALIBRATION REPORT FOR 176111 8081 Soil Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD

Reviewed By: MCH

Calnum: 234443043001 Name:

Type: (normal)

Date: 02-NOV-2004 23:49 Inj Vol (uL): 1

Calibration levels:

| # | Filename | Seqnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 307_020  | 234443043020 | pest_1    | 02-NOV-2004 23:49 | 04MS1628  |
| 2 | 307_021  | 234443043021 | pest_2    | 03-NOV-2004 00:19 | 04MS1629  |
| 3 | 307_022  | 234443043022 | pest_3    | 03-NOV-2004 00:50 | 04MS1630  |
| 4 | 307_023  | 234443043023 | pest_4    | 03-NOV-2004 01:21 | 04MS1632  |
| 5 | 307_024  | 234443043024 | pest_5    | 03-NOV-2004 01:52 | 04MS1633  |
| 6 | 307_025  | 234443043025 | pest_6    | 03-NOV-2004 02:22 | 04MS1634  |
| 7 | 307_026  | 234443043026 | pest_7    | 03-NOV-2004 02:54 | 04MS1635  |

| Analyte            | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type | X | a0 | a1       | a2 | units | avg    | %RSD | MnR <sup>2</sup> | MxRSD | Flags   |
|--------------------|----|--------|--------|--------|--------|--------|--------|--------|------|---|----|----------|----|-------|--------|------|------------------|-------|---------|
| alpha-BHC          | A  | 5472.0 | 6121.9 | 6798.1 | 8743.3 | 8385.9 | 9495.2 | 10837  | AVRG | R |    | 1.253E-4 |    | pg    | 7979.0 | 24   | 0.995            | 20    | rsd *** |
| gamma-BHC          | A  | 5904.6 | 6400.4 | 6971.8 | 8599.4 | 8204.1 | 8902.3 | 9921.1 | AVRG | R |    | 1.275E-4 |    | pg    | 7843.4 | 19   | 0.995            | 20    |         |
| beta-BHC           | A  | 5709.2 | 4928.9 | 4599.5 | 4881.3 | 4602.4 | 4631.6 | 4940.3 | AVRG | R |    | 2.041E-4 |    | pg    | 4899.0 | 8    | 0.995            | 20    |         |
| delta-BHC          | A  | 8480.9 | 7109.5 | 7081.7 | 8475.4 | 8203.0 | 8871.9 | 9831.2 | AVRG | R |    | 1.206E-4 |    | pg    | 8293.4 | 12   | 0.995            | 20    |         |
| Heptachlor         | A  | 7497.2 | 7329.5 | 7205.5 | 7898.0 | 7375.7 | 7327.1 | 7782.7 | AVRG | R |    | 1.335E-4 |    | pg    | 7487.9 | 3    | 0.995            | 20    |         |
| Aldrin             | A  | 6306.9 | 6337.8 | 6508.7 | 7594.2 | 7282.1 | 7727.9 | 8349.8 | AVRG | R |    | 1.397E-4 |    | pg    | 7158.2 | 11   | 0.995            | 20    |         |
| Heptachlor epoxide | A  | 7985.5 | 7695.2 | 7468.5 | 7915.7 | 7528.4 | 7461.8 | 7591.1 | AVRG | R |    | 1.305E-4 |    | pg    | 7663.7 | 3    | 0.995            | 20    |         |
| gamma-Chlordane    | A  | 7959.5 | 7754.5 | 7639.3 | 8255.3 | 7930.6 | 8117.8 | 8490.4 | AVRG | R |    | 1.247E-4 |    | pg    | 8021.1 | 4    | 0.995            | 20    |         |
| alpha-Chlordane    | A  | 7980.7 | 7809.0 | 7722.9 | 8303.4 | 7933.7 | 8035.1 | 8282.6 | AVRG | R |    | 1.248E-4 |    | pg    | 8009.6 | 3    | 0.995            | 20    |         |
| 4,4'-DDE           | A  | 6113.1 | 6553.1 | 7040.0 | 7767.1 | 7534.4 | 7575.6 | 7599.5 | AVRG | R |    | 1.395E-4 |    | pg    | 7169.0 | 9    | 0.995            | 20    |         |
| Endosulfan I       | A  | 7423.1 | 7045.6 | 6910.9 | 7454.8 | 7121.2 | 7203.8 | 7357.2 | AVRG | R |    | 1.386E-4 |    | pg    | 7216.7 | 3    | 0.995            | 20    |         |
| Dieldrin           | A  | 6940.4 | 7091.5 | 7268.9 | 7750.0 | 7438.5 | 7338.5 | 7269.5 | AVRG | R |    | 1.370E-4 |    | pg    | 7299.6 | 4    | 0.995            | 20    |         |
| Endrin             | A  | 6343.6 | 6421.6 | 6504.0 | 6815.8 | 6545.7 | 6411.9 | 6330.5 | AVRG | R |    | 1.543E-4 |    | pg    | 6481.9 | 3    | 0.995            | 20    |         |
| 4,4'-DDD           | A  | 4868.7 | 5272.0 | 5521.1 | 6084.1 | 5982.9 | 6089.7 | 6023.1 | AVRG | R |    | 1.757E-4 |    | pg    | 5691.7 | 8    | 0.995            | 20    |         |
| Endosulfan II      | A  | 7502.0 | 7273.4 | 7117.7 | 7268.2 | 6999.0 | 6791.0 | 6600.5 | AVRG | R |    | 1.413E-4 |    | pg    | 7078.8 | 4    | 0.995            | 20    |         |
| 4,4'-DDT           | A  | 4431.6 | 4646.0 | 5128.6 | 5714.2 | 5689.3 | 5734.9 | 5874.0 | AVRG | R |    | 1.881E-4 |    | pg    | 5316.9 | 11   | 0.995            | 20    |         |
| Methoxychlor       | A  | 3316.3 | 3091.4 | 2900.1 | 2730.9 | 2629.1 | 2436.5 | 2345.4 | AVRG | R |    | 3.599E-4 |    | pg    | 2778.5 | 13   | 0.995            | 20    |         |
| Endosulfan sulfate | A  | 8139.2 | 7153.9 | 6711.1 | 6641.3 | 6433.2 | 6208.7 | 6047.0 | AVRG | R |    | 1.479E-4 |    | pg    | 6762.1 | 10   | 0.995            | 20    |         |

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response \* a1 + response^2 \* a2

# INITIAL CALIBRATION REPORT FOR 176111 8081 Soil Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH  
Calnum: 234443043001 Name: Type: (normal) Date: 02-NOV-2004 23:49 Inj Vol (uL): 1

| Analyte            | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type | X | a0       | a1 | a2 | units | avg    | %RSD | MnR <sup>2</sup> | MxRSD | Flags   |
|--------------------|----|--------|--------|--------|--------|--------|--------|--------|------|---|----------|----|----|-------|--------|------|------------------|-------|---------|
| Endrin ketone      | A  | 8034.1 | 7735.6 | 7677.8 | 7725.1 | 7550.3 | 7266.6 | 6987.1 | AVRG | R | 1.321E-4 |    |    | pg    | 7568.1 | 5    | 0.995            | 20    |         |
| TCMX               | A  | 6824.1 | 7290.7 | 7230.9 | 7644.8 | 7159.8 | 7109.0 | 7365.5 | AVRG | R | 1.383E-4 |    |    | pg    | 7232.1 | 3    | 0.995            | 20    |         |
| Decachlorobiphenyl | A  | 10343  | 9035.1 | 8378.4 | 7754.7 | 7505.3 | 6536.9 |        | AVRG | R | 1.211E-4 |    |    | pg    | 8258.9 | 16   | 0.995            | 20    |         |
| alpha-BHC          | B  | 39160  | 39989  | 39131  | 41392  | 38574  | 38485  |        | AVRG | R | 2.535E-5 |    |    | pg    | 39455  | 3    | 0.995            | 20    |         |
| gamma-BHC          | B  | 38349  | 37389  | 35926  | 37357  | 34792  | 34286  | 34376  | AVRG | R | 2.773E-5 |    |    | pg    | 36068  | 5    | 0.995            | 20    |         |
| beta-BHC           | B  | 30108  | 23506  | 20199  | 19191  | 17742  | 16615  | 16899  | AVRG | R | 4.852E-5 |    |    | pg    | 20609  | 23   | 0.995            | 20    | rsd *** |
| delta-BHC          | B  | 57237  | 43551  | 38354  | 38383  | 36069  | 34937  | 33755  | AVRG | R | 2.480E-5 |    |    | pg    | 40327  | 20   | 0.995            | 20    |         |
| Heptachlor         | B  | 29288  | 26536  | 24476  | 24993  | 23231  | 21939  | 22798  | AVRG | R | 4.040E-5 |    |    | pg    | 24752  | 10   | 0.995            | 20    |         |
| Aldrin             | B  | 37398  | 35374  | 33350  | 34253  | 32081  | 30844  | 30808  | AVRG | R | 2.990E-5 |    |    | pg    | 33444  | 7    | 0.995            | 20    |         |
| Heptachlor epoxide | B  | 38248  | 34172  | 31075  | 30390  | 28418  | 26582  | 26088  | AVRG | R | 3.256E-5 |    |    | pg    | 30710  | 14   | 0.995            | 20    |         |
| gamma-Chlordane    | B  | 41102  | 36601  | 33624  | 33310  | 31590  | 30514  | 30293  | AVRG | R | 2.953E-5 |    |    | pg    | 33862  | 11   | 0.995            | 20    |         |
| alpha-Chlordane    | B  | 40166  | 36108  | 33155  | 32414  | 30775  | 29489  | 29383  | AVRG | R | 3.024E-5 |    |    | pg    | 33070  | 12   | 0.995            | 20    |         |
| 4,4'-DDE           | B  | 32371  | 31191  | 29981  | 29849  | 28583  | 27492  |        | AVRG | R | 3.343E-5 |    |    | pg    | 29911  | 6    | 0.995            | 20    |         |
| Endosulfan I       | B  | 37051  | 32746  | 30016  | 29072  | 27388  | 25649  | 24788  | AVRG | R | 3.386E-5 |    |    | pg    | 29530  | 14   | 0.995            | 20    |         |
| Dieldrin           | B  | 33918  | 31715  | 29726  | 29043  | 27498  | 25900  |        | AVRG | R | 3.375E-5 |    |    | pg    | 29633  | 10   | 0.995            | 20    |         |
| Endrin             | B  | 29624  | 27019  | 25120  | 24323  | 23132  | 21827  |        | AVRG | R | 3.972E-5 |    |    | pg    | 25174  | 11   | 0.995            | 20    |         |
| 4,4'-DDD           | B  | 25353  | 23884  | 22455  | 22172  | 21557  | 21001  |        | AVRG | R | 4.398E-5 |    |    | pg    | 22737  | 7    | 0.995            | 20    |         |
| Endosulfan II      | B  | 34609  | 29941  | 27167  | 25581  | 24383  | 22757  |        | AVRG | R | 3.649E-5 |    |    | pg    | 27406  | 16   | 0.995            | 20    |         |
| 4,4'-DDT           | B  | 18001  | 17233  | 17495  | 17908  | 17627  | 17323  | 16086  | AVRG | R | 5.753E-5 |    |    | pg    | 17382  | 4    | 0.995            | 20    |         |
| Methoxychlor       | B  | 9153.5 | 7994.1 | 7404.8 | 7150.0 | 6998.1 | 6157.4 |        | AVRG | R | 1.338E-4 |    |    | pg    | 7476.3 | 14   | 0.995            | 20    |         |
| Endosulfan sulfate | B  | 35100  | 28294  | 24902  | 23255  | 22248  | 20881  |        | AVRG | R | 3.879E-5 |    |    | pg    | 25780  | 20   | 0.995            | 20    |         |
| Endrin ketone      | B  | 32490  | 28351  | 26096  | 24849  | 24118  | 22842  |        | AVRG | R | 3.780E-5 |    |    | pg    | 26458  | 13   | 0.995            | 20    |         |
| TCMX               | B  | 34048  | 31725  | 28689  | 27801  | 25730  | 24379  |        | AVRG | R | 3.481E-5 |    |    | pg    | 28729  | 13   | 0.995            | 20    |         |
| Decachlorobiphenyl | B  | 28981  | 24029  | 21958  | 20271  | 19783  | 17632  |        | AVRG | R | 4.523E-5 |    |    | pg    | 22109  | 18   | 0.995            | 20    |         |

| Method    | Ch | Count | Avg | %RSD | Limit | Flags |
|-----------|----|-------|-----|------|-------|-------|
| EPA 8081A | A  | 22    | 8   | 20   |       |       |
| EPA 8081A | B  | 22    | 12  | 20   |       |       |

Flags used: rsd=ICAL %RSD failure  
Curves: AVRG: Average response factor  
Instrument amount = a0 + response \* a1 + response^2 \* a2  
Page 2 of 2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instid : GC16 Calname :  
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :

ICV 234443043035 (307\_035) standards: 04WS2099

| Analyte            | Ch | ICV          | Seqnum      | Date   | Spiked | Quant | Units | %D | Max    |
|--------------------|----|--------------|-------------|--------|--------|-------|-------|----|--------|
| alpha-BHC          | A  | 234443043035 | 03-NOV-2004 | 25.000 | 24.414 | pg    | -2    | 15 |        |
| gamma-BHC          | A  | 234443043035 | 03-NOV-2004 | 25.000 | 24.257 | pg    | -3    | 15 |        |
| beta-BHC           | A  | 234443043035 | 03-NOV-2004 | 25.000 | 21.776 | pg    | -13   | 15 |        |
| delta-BHC          | A  | 234443043035 | 03-NOV-2004 | 25.000 | 23.895 | pg    | -4    | 15 |        |
| Heptachlor         | A  | 234443043035 | 03-NOV-2004 | 25.000 | 23.037 | pg    | -8    | 15 |        |
| Aldrin             | A  | 234443043035 | 03-NOV-2004 | 25.000 | 24.745 | pg    | -1    | 15 |        |
| Heptachlor epoxide | A  | 234443043035 | 03-NOV-2004 | 25.000 | 23.704 | pg    | -5    | 15 |        |
| gamma-Chlordane    | A  | 234443043035 | 03-NOV-2004 | 25.000 | 24.172 | pg    | -3    | 15 |        |
| alpha-Chlordane    | A  | 234443043035 | 03-NOV-2004 | 25.000 | 25.143 | pg    | 1     | 15 |        |
| 4,4'-DDE           | A  | 234443043035 | 03-NOV-2004 | 25.000 | 25.244 | pg    | 1     | 15 |        |
| Endosulfan I       | A  | 234443043035 | 03-NOV-2004 | 25.000 | 24.863 | pg    | -1    | 15 |        |
| Dieldrin           | A  | 234443043035 | 03-NOV-2004 | 25.000 | 24.948 | pg    | 0     | 15 |        |
| Endrin             | A  | 234443043035 | 03-NOV-2004 | 25.000 | 25.384 | pg    | 2     | 15 |        |
| 4,4'-DDD           | A  | 234443043035 | 03-NOV-2004 | 25.000 | 25.681 | pg    | 3     | 15 |        |
| Endosulfan II      | A  | 234443043035 | 03-NOV-2004 | 25.000 | 25.530 | pg    | 2     | 15 |        |
| 4,4'-DDT           | A  | 234443043035 | 03-NOV-2004 | 25.000 | 25.827 | pg    | 3     | 15 |        |
| Methoxychlor       | A  | 234443043035 | 03-NOV-2004 | 25.000 | 28.695 | pg    | 15    | 15 |        |
| Endosulfan sulfate | A  | 234443043035 | 03-NOV-2004 | 25.000 | 25.523 | pg    | 2     | 15 |        |
| Endrin ketone      | A  | 234443043035 | 03-NOV-2004 | 25.000 | 25.738 | pg    | 3     | 15 |        |
| TCMX               | A  | 234443043035 | 03-NOV-2004 | 25.000 | 28.098 | pg    | 12    | 15 |        |
| Decachlorobiphenyl | A  | 234443043035 | 03-NOV-2004 | 25.000 | 26.815 | pg    | 7     | 15 |        |
| alpha-BHC          | B  | 234443043035 | 03-NOV-2004 | 25.000 | 23.455 | pg    | -6    | 15 |        |
| gamma-BHC          | B  | 234443043035 | 03-NOV-2004 | 25.000 | 22.965 | pg    | -8    | 15 |        |
| beta-BHC           | B  | 234443043035 | 03-NOV-2004 | 25.000 | 20.732 | pg    | -17   | 15 | v- *** |
| delta-BHC          | B  | 234443043035 | 03-NOV-2004 | 25.000 | 21.974 | pg    | -12   | 15 |        |
| Heptachlor         | B  | 234443043035 | 03-NOV-2004 | 25.000 | 21.984 | pg    | -12   | 15 |        |
| Aldrin             | B  | 234443043035 | 03-NOV-2004 | 25.000 | 23.775 | pg    | -5    | 15 |        |
| Heptachlor epoxide | B  | 234443043035 | 03-NOV-2004 | 25.000 | 22.943 | pg    | -8    | 15 |        |
| gamma-Chlordane    | B  | 234443043035 | 03-NOV-2004 | 25.000 | 23.168 | pg    | -7    | 15 |        |
| alpha-Chlordane    | B  | 234443043035 | 03-NOV-2004 | 25.000 | 23.829 | pg    | -5    | 15 |        |
| 4,4'-DDE           | B  | 234443043035 | 03-NOV-2004 | 25.000 | 25.648 | pg    | 3     | 15 |        |
| Endosulfan I       | B  | 234443043035 | 03-NOV-2004 | 25.000 | 24.158 | pg    | -3    | 15 |        |
| Dieldrin           | B  | 234443043035 | 03-NOV-2004 | 25.000 | 24.997 | pg    | 0     | 15 |        |
| Endrin             | B  | 234443043035 | 03-NOV-2004 | 25.000 | 24.864 | pg    | -1    | 15 |        |
| 4,4'-DDD           | B  | 234443043035 | 03-NOV-2004 | 25.000 | 25.211 | pg    | 1     | 15 |        |
| Endosulfan II      | B  | 234443043035 | 03-NOV-2004 | 25.000 | 24.961 | pg    | 0     | 15 |        |
| 4,4'-DDT           | B  | 234443043035 | 03-NOV-2004 | 25.000 | 26.425 | pg    | 6     | 15 |        |
| Methoxychlor       | B  | 234443043035 | 03-NOV-2004 | 25.000 | 28.891 | pg    | 16    | 15 | v+ *** |
| Endosulfan sulfate | B  | 234443043035 | 03-NOV-2004 | 25.000 | 24.715 | pg    | -1    | 15 |        |
| Endrin ketone      | B  | 234443043035 | 03-NOV-2004 | 25.000 | 24.746 | pg    | -1    | 15 |        |
| TCMX               | B  | 234443043035 | 03-NOV-2004 | 25.000 | 28.272 | pg    | 13    | 15 |        |
| Decachlorobiphenyl | B  | 234443043035 | 03-NOV-2004 | 25.000 | 26.373 | pg    | 5     | 15 |        |

| Method    | Ch | Count | Avg | %D | Limit | Flags |
|-----------|----|-------|-----|----|-------|-------|
| EPA 8081A | A  | 22    | 5   | 15 |       |       |
| EPA 8081A | B  | 22    | 6   | 15 |       |       |

+ = high bias    - = low bias    v = ICV

# INITIAL CALIBRATION REPORT FOR 176111 8081 Soil Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD Reviewed By: MCH  
Calnum: 244467602001 Name: Type: (normal) Date: 19-NOV-2004 18:49 Inj Vol (uL): 1

## Calibration levels:

| # | Filename | Segnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 324_005  | 244467602005 | pest_1    | 19-NOV-2004 18:49 | 04WS1628  |
| 2 | 324_006  | 244467602006 | pest_2    | 19-NOV-2004 19:19 | 04WS1629  |
| 3 | 324_007  | 244467602007 | pest_3    | 19-NOV-2004 19:48 | 04WS2051  |
| 4 | 324_008  | 244467602008 | pest_4    | 19-NOV-2004 20:17 | 04WS2052  |
| 5 | 324_009  | 244467602009 | pest_5    | 19-NOV-2004 20:46 | 04WS2053  |
| 6 | 324_010  | 244467602010 | pest_6    | 19-NOV-2004 21:15 | 04WS1634  |
| 7 | 324_011  | 244467602011 | pest_7    | 19-NOV-2004 21:44 | 04WS1635  |

| Analyte            | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type | X | a0 | a1       | a2 | units | avg    | RSD | Msk | 2     | MskRSD | Flags |
|--------------------|----|--------|--------|--------|--------|--------|--------|--------|------|---|----|----------|----|-------|--------|-----|-----|-------|--------|-------|
| alpha-BHC          | A  | 12674  | 12648  | 12026  | 11620  | 11065  | 12098  | 13277  | AVRG | R |    | 8.196E-5 |    | pg    | 12201  | 6   |     | 0.995 | 20     |       |
| gamma-BHC          | A  | 11576  | 11529  | 11013  | 10475  | 9913.9 | 10832  | 11831  | AVRG | R |    | 9.071E-5 |    | pg    | 11024  | 6   |     | 0.995 | 20     |       |
| beta-BHC           | A  | 5190.3 | 5171.8 | 4913.4 | 4573.3 | 4300.9 | 4478.6 | 4568.1 | AVRG | R |    | 2.109E-4 |    | pg    | 4742.3 | 7   |     | 0.995 | 20     |       |
| delta-BHC          | A  | 11379  | 11368  | 10920  | 10288  | 9735.2 | 10711  | 11799  | AVRG | R |    | 9.186E-5 |    | pg    | 10886  | 7   |     | 0.995 | 20     |       |
| Heptachlor         | A  | 10900  | 11032  | 10758  | 10017  | 9366.0 | 10459  | 11339  | AVRG | R |    | 9.476E-5 |    | pg    | 10553  | 6   |     | 0.995 | 20     |       |
| Aldrin             | A  | 11131  | 11160  | 10748  | 9926.5 | 9248.0 | 10325  | 11124  | AVRG | R |    | 9.503E-5 |    | pg    | 10523  | 7   |     | 0.995 | 20     |       |
| Heptachlor epoxide | A  | 10311  | 10327  | 9998.8 | 9078.2 | 8415.2 | 9315.7 | 9779.8 | AVRG | R |    | 1.041E-4 |    | pg    | 9603.6 | 7   |     | 0.995 | 20     |       |
| gamma-Chlordane    | A  | 10417  | 10334  | 10062  | 9115.9 | 8437.1 | 9522.0 | 10289  | AVRG | R |    | 1.027E-4 |    | pg    | 9739.5 | 8   |     | 0.995 | 20     |       |
| alpha-Chlordane    | A  | 10133  | 10005  | 9757.0 | 8756.8 | 8092.0 | 9086.7 | 9733.5 | AVRG | R |    | 1.068E-4 |    | pg    | 9366.3 | 8   |     | 0.995 | 20     |       |
| 4,4'-DDE           | A  | 9944.1 | 9814.8 | 9635.6 | 8714.1 | 8065.4 | 9477.1 | 10514  | AVRG | R |    | 1.058E-4 |    | pg    | 9452.1 | 9   |     | 0.995 | 20     |       |
| Endosulfan I       | A  | 9455.3 | 9376.8 | 9092.8 | 8161.3 | 7547.7 | 8327.6 | 8656.2 | AVRG | R |    | 1.155E-4 |    | pg    | 8659.7 | 8   |     | 0.995 | 20     |       |
| Dieldrin           | A  | 10298  | 10249  | 10009  | 9091.8 | 8443.0 | 9768.3 | 10451  | AVRG | R |    | 1.025E-4 |    | pg    | 9758.5 | 8   |     | 0.995 | 20     |       |
| Endrin             | A  | 7824.0 | 7699.0 | 7671.2 | 6580.2 | 5986.4 | 7210.4 | 7838.2 | AVRG | R |    | 1.378E-4 |    | pg    | 7258.5 | 10  |     | 0.995 | 20     |       |
| 4,4'-DDD           | A  | 8120.4 | 8040.1 | 7671.3 | 6842.0 | 6320.6 | 7287.5 | 7937.6 | AVRG | R |    | 1.340E-4 |    | pg    | 7459.9 | 9   |     | 0.995 | 20     |       |
| Endosulfan II      | A  | 8248.6 | 8136.5 | 7849.4 | 6996.2 | 6469.3 | 7360.6 | 7852.4 | AVRG | R |    | 1.323E-4 |    | pg    | 7559.0 | 9   |     | 0.995 | 20     |       |
| 4,4'-DDT           | A  | 7105.5 | 7238.3 | 7609.0 | 6690.9 | 6166.8 | 7439.8 | 8339.6 | AVRG | R |    | 1.384E-4 |    | pg    | 7227.2 | 10  |     | 0.995 | 20     |       |
| Methoxychlor       | A  | 3230.9 | 3196.9 | 3364.2 | 2880.6 | 2641.0 | 3159.8 | 2895.3 | AVRG | R |    | 3.276E-4 |    | pg    | 3052.7 | 8   |     | 0.995 | 20     |       |
| Endosulfan sulfate | A  | 7203.0 | 7102.9 | 6907.9 | 6074.0 | 5583.9 | 6406.9 | 7142.7 | AVRG | R |    | 1.508E-4 |    | pg    | 6631.6 | 9   |     | 0.995 | 20     |       |
| Endrin ketone      | A  | 8077.0 | 7901.0 | 7553.2 | 6693.1 | 6209.9 | 7050.1 | 7400.8 | AVRG | R |    | 1.376E-4 |    | pg    | 7269.3 | 9   |     | 0.995 | 20     |       |

Curves: AVR6: Average response factor

Instrument amount = a0 + response \* a1 + response^2 \* a2

# INITIAL CALIBRATION REPORT FOR 176111 8081 Soil Curtis & Tompkins Laboratories

Instrument: GC21      Gas Chromatograph #21 ECD      Reviewed By: MCH  
 Calnum: 244467602001      Name:      Type: (normal)      Date: 19-NOV-2004 18:49 Inj Vol (uL): 1

| Analyte            | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type | X | a0 | a1       | a2 | units | avg    | r <sup>2</sup> | MRSD  | MRSD | Flags |
|--------------------|----|--------|--------|--------|--------|--------|--------|--------|------|---|----|----------|----|-------|--------|----------------|-------|------|-------|
| TCMX               | A  | 8612.7 | 8295.8 | 7727.3 | 7375.4 | 6989.6 | 7447.3 | 7947.0 | AVRG | R |    | 1.287E-4 |    | pg    | 7770.7 | 7              | 0.995 | 20   |       |
| Decachlorobiphenyl | A  | 5499.8 | 5422.9 | 5723.8 | 4719.4 | 4184.3 | 5371.9 |        | AVRG | R |    | 1.940E-4 |    | pg    | 5153.7 | 11             | 0.995 | 20   |       |
| alpha-BHC          | B  | 13046  | 11790  | 11040  | 11198  | 10292  | 11166  | 11780  | AVRG | R |    | 8.716E-5 |    | pg    | 11473  | 7              | 0.995 | 20   |       |
| gamma-BHC          | B  | 11368  | 10292  | 9699.6 | 9816.5 | 8898.2 | 9742.3 | 10250  | AVRG | R |    | 9.991E-5 |    | pg    | 10009  | 8              | 0.995 | 20   |       |
| beta-BHC           | B  | 4489.6 | 4018.2 | 3974.6 | 4036.3 | 3639.4 | 3854.9 | 3953.4 | AVRG | R |    | 2.503E-4 |    | pg    | 3995.2 | 6              | 0.995 | 20   |       |
| delta-BHC          | B  | 11593  | 10277  | 9817.2 | 9799.4 | 8784.2 | 9617.1 | 10147  | AVRG | R |    | 9.995E-5 |    | pg    | 10005  | 8              | 0.995 | 20   |       |
| Heptachlor         | B  | 9594.6 | 8742.4 | 8580.9 | 8609.8 | 7676.3 | 8360.9 | 8818.5 | AVRG | R |    | 1.159E-4 |    | pg    | 8626.2 | 7              | 0.995 | 20   |       |
| Aldrin             | B  | 10298  | 9275.9 | 8899.6 | 8710.7 | 7620.3 | 8278.2 | 8666.8 | AVRG | R |    | 1.134E-4 |    | pg    | 8821.3 | 9              | 0.995 | 20   |       |
| Heptachlor epoxide | B  | 9212.1 | 8298.8 | 8073.8 | 7892.9 | 6851.3 | 7431.1 | 7728.8 | AVRG | R |    | 1.262E-4 |    | pg    | 7927.0 | 9              | 0.995 | 20   |       |
| gamma-Chlordane    | B  | 9288.3 | 8285.6 | 8087.7 | 7905.2 | 6830.0 | 7454.2 | 7892.9 | AVRG | R |    | 1.256E-4 |    | pg    | 7963.4 | 9              | 0.995 | 20   |       |
| alpha-Chlordane    | B  | 8759.0 | 7877.4 | 7675.9 | 7522.5 | 6461.6 | 7047.2 | 7432.2 | AVRG | R |    | 1.326E-4 |    | pg    | 7539.4 | 9              | 0.995 | 20   |       |
| 4,4'-DDE           | B  | 8837.3 | 7840.5 | 7734.1 | 7786.8 | 6663.3 | 7377.8 | 7825.4 | AVRG | R |    | 1.295E-4 |    | pg    | 7723.6 | 8              | 0.995 | 20   |       |
| Endosulfan I       | B  | 8412.5 | 7566.2 | 7333.7 | 7124.9 | 6132.2 | 6606.4 | 6846.1 | AVRG | R |    | 1.399E-4 |    | pg    | 7146.0 | 10             | 0.995 | 20   |       |
| Dieldrin           | B  | 9098.1 | 8032.8 | 7804.2 | 7794.1 | 6726.0 | 7397.6 | 7700.2 | AVRG | R |    | 1.283E-4 |    | pg    | 7793.3 | 9              | 0.995 | 20   |       |
| Endrin             | B  | 6666.5 | 5859.8 | 5640.9 | 5568.1 | 4622.1 | 5200.1 | 5429.3 | AVRG | R |    | 1.795E-4 |    | pg    | 5569.5 | 11             | 0.995 | 20   |       |
| 4,4'-DDD           | B  | 7720.4 | 6741.8 | 6382.3 | 6250.9 | 5362.1 | 5828.4 | 6113.8 | AVRG | R |    | 1.577E-4 |    | pg    | 6342.8 | 12             | 0.995 | 20   |       |
| Endosulfan II      | B  | 7878.3 | 6982.9 | 6730.7 | 6672.1 | 5758.1 | 6286.2 | 6532.6 | AVRG | R |    | 1.494E-4 |    | pg    | 6691.5 | 10             | 0.995 | 20   |       |
| 4,4'-DDT           | B  | 6341.6 | 5816.4 | 5863.6 | 6047.9 | 5137.8 | 5766.4 | 6225.9 | AVRG | R |    | 1.699E-4 |    | pg    | 5885.7 | 7              | 0.995 | 20   |       |
| Methoxychlor       | B  | 2609.5 | 2393.2 | 2407.5 | 2527.8 | 2130.5 | 2316.3 | 2302.1 | AVRG | R |    | 4.195E-4 |    | pg    | 2383.8 | 7              | 0.995 | 20   |       |
| Endosulfan sulfate | B  | 6892.6 | 6061.9 | 5791.6 | 5713.2 | 4921.7 | 5392.2 | 5870.1 | AVRG | R |    | 1.722E-4 |    | pg    | 5806.2 | 10             | 0.995 | 20   |       |
| Endrin ketone      | B  | 9561.8 | 7698.8 | 7261.0 | 7205.0 | 6274.0 | 6754.1 | 6861.9 | AVRG | R |    | 1.356E-4 |    | pg    | 7373.8 | 14             | 0.995 | 20   |       |
| TCMX               | B  | 8017.0 | 7427.8 | 7012.8 | 7316.7 | 6806.0 | 7351.3 | 7608.3 | AVRG | R |    | 1.358E-4 |    | pg    | 7362.8 | 5              | 0.995 | 20   |       |
| Decachlorobiphenyl | B  | 4639.2 | 4231.4 | 4017.4 | 4149.7 | 3432.3 | 3730.4 | 4156.2 | AVRG | R |    | 2.469E-4 |    | pg    | 4050.9 | 9              | 0.995 | 20   |       |

| Method    | Ch | Count | AVG | MRSD | Limit | Flags |
|-----------|----|-------|-----|------|-------|-------|
| EPA 8081A | A  | 22    | 8   | 20   |       |       |
| EPA 8081A | B  | 22    | 9   | 20   |       |       |

Curves:      AVG: Average response factor  
 Instrument amount = a0 + response \* a1 + response^2 \* a2  
 Page 2 of 2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instid : GC21 Calname :  
Calnum : 244467602001 Caldate : 19-NOV-2004 Caltype :

ICV 244467602013 (324\_013) standards: 04WS2099

| Analyte            | Ch | ICV          | Segnum | Date        | Spiked | Quant  | Units | %D | Max |
|--------------------|----|--------------|--------|-------------|--------|--------|-------|----|-----|
| alpha-BHC          | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.697 | pg    | -1 | 15  |
| gamma-BHC          | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.831 | pg    | -1 | 15  |
| beta-BHC           | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.594 | pg    | -2 | 15  |
| delta-BHC          | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 25.406 | pg    | 2  | 15  |
| Heptachlor         | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.843 | pg    | -1 | 15  |
| Aldrin             | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.962 | pg    | 0  | 15  |
| Heptachlor epoxide | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.157 | pg    | -3 | 15  |
| gamma-Chlordane    | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.747 | pg    | -5 | 15  |
| alpha-Chlordane    | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.196 | pg    | -3 | 15  |
| 4,4'-DDE           | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.952 | pg    | -4 | 15  |
| Endosulfan I       | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.628 | pg    | -1 | 15  |
| Dieldrin           | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.190 | pg    | -3 | 15  |
| Endrin             | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.194 | pg    | -3 | 15  |
| 4,4'-DDD           | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.650 | pg    | -1 | 15  |
| Endosulfan II      | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.860 | pg    | -1 | 15  |
| 4,4'-DDT           | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.026 | pg    | -4 | 15  |
| Methoxychlor       | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 26.709 | pg    | 7  | 15  |
| Endosulfan sulfate | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.669 | pg    | -1 | 15  |
| Endrin ketone      | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.906 | pg    | 0  | 15  |
| TCMX               | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 30.054 | pg    | 20 | 15  |
| Decachlorobiphenyl | A  | 244467602013 |        | 19-NOV-2004 | 25.000 | 26.552 | pg    | 6  | 15  |
| alpha-BHC          | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.002 | pg    | -4 | 15  |
| gamma-BHC          | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.163 | pg    | -3 | 15  |
| beta-BHC           | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.621 | pg    | -2 | 15  |
| delta-BHC          | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.405 | pg    | -2 | 15  |
| Heptachlor         | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.375 | pg    | -3 | 15  |
| Aldrin             | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.265 | pg    | -3 | 15  |
| Heptachlor epoxide | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.561 | pg    | -6 | 15  |
| gamma-Chlordane    | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.202 | pg    | -7 | 15  |
| alpha-Chlordane    | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.884 | pg    | -4 | 15  |
| 4,4'-DDE           | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.731 | pg    | -5 | 15  |
| Endosulfan I       | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.182 | pg    | -3 | 15  |
| Dieldrin           | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.920 | pg    | -4 | 15  |
| Endrin             | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.379 | pg    | -6 | 15  |
| 4,4'-DDD           | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.900 | pg    | -4 | 15  |
| Endosulfan II      | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.065 | pg    | -4 | 15  |
| 4,4'-DDT           | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.557 | pg    | -6 | 15  |
| Methoxychlor       | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 25.840 | pg    | 3  | 15  |
| Endosulfan sulfate | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 24.067 | pg    | -4 | 15  |
| Endrin ketone      | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 23.912 | pg    | -4 | 15  |
| TCMX               | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 30.269 | pg    | 21 | 15  |
| Decachlorobiphenyl | B  | 244467602013 |        | 19-NOV-2004 | 25.000 | 25.835 | pg    | 3  | 15  |

| Method    | Ch | Count | Avg | %D | Limit | Flags |
|-----------|----|-------|-----|----|-------|-------|
| EPA 8081A | A  | 22    | 3   | 15 |       |       |
| EPA 8081A | B  | 22    | 5   | 15 |       |       |



PERFORMANCE EVALUATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD  
Seqnum: 234465868002 Run Name:  
Filename: 323\_002 Standard(s): 04WS2193

Injected: 18-NOV-2004 12:28

| Analyte             | Ch Area     |
|---------------------|-------------|
| Endrin              | A 358856.63 |
| Endrin aldehyde     | A 1441.37   |
| Endrin ketone       | A 5751.24   |
| Endrin Breakdown %: | 2           |
| Breakdown Limit %:  | 15          |

| Analyte               | Ch Area     |
|-----------------------|-------------|
| 4,4'-DDT              | A 503180.76 |
| 4,4'-DDE              | A 2607.19   |
| 4,4'-DDD              | A 52208.33  |
| 4,4'-DDT Breakdown %: | 10          |
| Breakdown Limit %:    | 15          |

| Analyte             | Ch Area      |
|---------------------|--------------|
| Endrin              | B 1268999.79 |
| Endrin aldehyde     | B 0          |
| Endrin ketone       | B 29963.96   |
| Endrin Breakdown %: | 2            |
| Breakdown Limit %:  | 15           |

| Analyte               | Ch Area      |
|-----------------------|--------------|
| 4,4'-DDT              | B 1647303.26 |
| 4,4'-DDE              | B 16783.27   |
| 4,4'-DDD              | B 227646.91  |
| 4,4'-DDT Breakdown %: | 13           |
| Breakdown Limit %:    | 15           |

PERFORMANCE EVALUATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD  
Seqnum: 234465868012 Run Name:  
Filename: 323\_012 Standard(s): 04WS2193

Injected: 18-NOV-2004 20:38

| Analyte             | Ch Area     |
|---------------------|-------------|
| Endrin              | A 335117.24 |
| Endrin aldehyde     | A 102.92    |
| Endrin ketone       | A 4784.9    |
| Endrin Breakdown %: | 1           |
| Breakdown Limit %:  | 15          |

| Analyte               | Ch Area     |
|-----------------------|-------------|
| 4,4'-DDT              | A 470064.54 |
| 4,4'-DDE              | A 2499.89   |
| 4,4'-DDD              | A 27073.06  |
| 4,4'-DDT Breakdown %: | 6           |
| Breakdown Limit %:    | 15          |

| Analyte             | Ch Area      |
|---------------------|--------------|
| Endrin              | B 1248026.94 |
| Endrin aldehyde     | B 0          |
| Endrin ketone       | B 37048.22   |
| Endrin Breakdown %: | 3            |
| Breakdown Limit %:  | 15           |

| Analyte               | Ch Area      |
|-----------------------|--------------|
| 4,4'-DDT              | B 1297802.37 |
| 4,4'-DDE              | B 20784.91   |
| 4,4'-DDD              | B 202851.5   |
| 4,4'-DDT Breakdown %: | 15           |
| Breakdown Limit %:    | 15           |

PERFORMANCE EVALUATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD  
Seqnum: 234465868031 Run Name:  
Filename: 323\_031 Standard(s): 04WS1614

Injected: 19-NOV-2004 06:17

| Analyte             | Ch Area     |
|---------------------|-------------|
| Endrin              | A 367155.73 |
| Endrin aldehyde     | A 377.94    |
| Endrin ketone       | A 6008.11   |
| Endrin Breakdown %: | 2           |
| Breakdown Limit %:  | 15          |

| Analyte               | Ch Area     |
|-----------------------|-------------|
| 4,4'-DDT              | A 556020.17 |
| 4,4'-DDE              | A 3407.41   |
| 4,4'-DDD              | A 45595.53  |
| 4,4'-DDT Breakdown %: | 8           |
| Breakdown Limit %:    | 15          |

| Analyte             | Ch Area      |
|---------------------|--------------|
| Endrin              | B 1317337.38 |
| Endrin aldehyde     | B 9307.84    |
| Endrin ketone       | B 28769.89   |
| Endrin Breakdown %: | 3            |
| Breakdown Limit %:  | 15           |

| Analyte               | Ch Area      |
|-----------------------|--------------|
| 4,4'-DDT              | B 1754046.68 |
| 4,4'-DDE              | B 23014.89   |
| 4,4'-DDD              | B 214971.95  |
| 4,4'-DDT Breakdown %: | 12           |
| Breakdown Limit %:    | 15           |

PERFORMANCE EVALUATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD  
Seqnum: 234465868043 Run Name:  
Filename: 323\_043 Standard(s): 04WS2193

Injected: 19-NOV-2004 17:53

| Analyte             | Ch Area     |
|---------------------|-------------|
| Endrin              | A 342956.17 |
| Endrin aldehyde     | A 2496.32   |
| Endrin ketone       | A 5895.31   |
| Endrin Breakdown %: | 2           |
| Breakdown Limit %:  | 15          |

| Analyte               | Ch Area     |
|-----------------------|-------------|
| 4,4'-DDT              | A 546700.63 |
| 4,4'-DDE              | A 3133.25   |
| 4,4'-DDD              | A 47980     |
| 4,4'-DDT Breakdown %: | 9           |
| Breakdown Limit %:    | 15          |

| Analyte             | Ch Area      |
|---------------------|--------------|
| Endrin              | B 1384079.32 |
| Endrin aldehyde     | B 27263.15   |
| Endrin ketone       | B 29797.05   |
| Endrin Breakdown %: | 4            |
| Breakdown Limit %:  | 15           |

| Analyte               | Ch Area      |
|-----------------------|--------------|
| 4,4'-DDT              | B 1621806.44 |
| 4,4'-DDE              | B 20234.17   |
| 4,4'-DDD              | B 222214.72  |
| 4,4'-DDT Breakdown %: | 13           |
| Breakdown Limit %:    | 15           |

PERFORMANCE EVALUATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD  
Seqnum: 244471586003 Run Name:  
Filename: 327\_003 Standard(s): 04WS2193

Injected: 22-NOV-2004 11:46

| Analyte             | Ch Area     |
|---------------------|-------------|
| Endrin              | A 364516.47 |
| Endrin aldehyde     | A 25556.13  |
| Endrin ketone       | A 27958.57  |
| Endrin Breakdown %: | 13          |
| Breakdown Limit %:  | 15          |

| Analyte               | Ch Area     |
|-----------------------|-------------|
| 4,4'-DDT              | A 779609.63 |
| 4,4'-DDE              | A 3737.6    |
| 4,4'-DDD              | A 18587.85  |
| 4,4'-DDT Breakdown %: | 3           |
| Breakdown Limit %:    | 15          |

| Analyte             | Ch Area     |
|---------------------|-------------|
| Endrin              | B 258563.78 |
| Endrin aldehyde     | B 27638.67  |
| Endrin ketone       | B 33332     |
| Endrin Breakdown %: | 19 P ***    |
| Breakdown Limit %:  | 15          |

*Ch. A used*

*for opting.  
mcs u/12/04*

| Analyte               | Ch Area     |
|-----------------------|-------------|
| 4,4'-DDT              | B 642467.62 |
| 4,4'-DDE              | B 3364.82   |
| 4,4'-DDD              | B 21236.16  |
| 4,4'-DDT Breakdown %: | 4           |
| Breakdown Limit %:    | 15          |

PERFORMANCE EVALUATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD  
Seqnum: 244471586009 Run Name:  
Filename: 327\_009 Standard(s): 04WS1614

Injected: 22-NOV-2004 14:49

| Analyte             | Ch Area     |
|---------------------|-------------|
| Endrin              | A 369868.24 |
| Endrin aldehyde     | A 19438.06  |
| Endrin ketone       | A 33713.35  |
| Endrin Breakdown %: | 13          |
| Breakdown Limit %:  | 15          |

| Analyte               | Ch Area     |
|-----------------------|-------------|
| 4,4'-DDT              | A 786246.77 |
| 4,4'-DDE              | A 3001.15   |
| 4,4'-DDD              | A 28412.13  |
| 4,4'-DDT Breakdown %: | 4           |
| Breakdown Limit %:    | 15          |

| Analyte             | Ch Area    |
|---------------------|------------|
| Endrin              | B 266466.5 |
| Endrin aldehyde     | B 20656.62 |
| Endrin ketone       | B 36184.5  |
| Endrin Breakdown %: | 18 P ***   |
| Breakdown Limit %:  | 15         |

Ch. A - used

for rept.  
max value

| Analyte               | Ch Area     |
|-----------------------|-------------|
| 4,4'-DDT              | B 631419.66 |
| 4,4'-DDE              | B 2944.5    |
| 4,4'-DDD              | B 24617.89  |
| 4,4'-DDT Breakdown %: | 4           |
| Breakdown Limit %:    | 15          |



CONTINUING CALIBRATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : ccv IDF : 1.0  
Seqnum : 234465868004 Filename : 323\_004 Injected : 18-NOV-2004 13:29  
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :  
Standards: 04WS2052

| Analyte            | Ch | Avg<br>RF/CF | RF/CF      | SpkAmt   | QuantAmt | Units | %D Max | %D | Flags      |
|--------------------|----|--------------|------------|----------|----------|-------|--------|----|------------|
| alpha-BHC          | A  | 7979.0       | 7802.9     | 20.00000 | 19.55846 | pg    | -2     | 15 | rsd ***    |
| gamma-BHC          | A  | 7843.4       | 7744.2     | 20.00000 | 19.74707 | pg    | -1     | 15 |            |
| beta-BHC           | A  | 4899.0       | 4474.6     | 20.00000 | 18.26727 | pg    | -9     | 15 |            |
| delta-BHC          | A  | 8293.4       | 7513.7     | 20.00000 | 18.11981 | pg    | -9     | 15 |            |
| Heptachlor         | A  | 7487.9       | 7445.8     | 20.00000 | 19.88744 | pg    | -1     | 15 |            |
| Aldrin             | A  | 7158.2       | 7131.4     | 20.00000 | 19.92524 | pg    | 0      | 15 |            |
| Heptachlor epoxide | A  | 7663.7       | 7837.9     | 20.00000 | 20.45451 | pg    | 2      | 15 |            |
| gamma-Chlordane    | A  | 8021.1       | 8236.2     | 20.00000 | 20.53653 | pg    | 3      | 15 |            |
| alpha-Chlordane    | A  | 8009.6       | 8322.8     | 20.00000 | 20.78208 | pg    | 4      | 15 |            |
| 4,4'-DDE           | A  | 7169.0       | 7987.5     | 40.00000 | 44.56700 | pg    | 11     | 15 |            |
| Endosulfan I       | A  | 7216.7       | 7508.0     | 20.00000 | 20.80753 | pg    | 4      | 15 |            |
| Dieldrin           | A  | 7299.6       | 7869.6     | 40.00000 | 43.12321 | pg    | 8      | 15 |            |
| Endrin             | A  | 6481.9       | 7017.1     | 40.00000 | 43.30271 | pg    | 8      | 15 |            |
| 4,4'-DDD           | A  | 5691.7       | 6341.8     | 40.00000 | 44.56924 | pg    | 11     | 15 |            |
| Endosulfan II      | A  | 7078.8       | 7461.5     | 40.00000 | 42.16199 | pg    | 5      | 15 |            |
| 4,4'-DDT           | A  | 5316.9       | 5574.1     | 40.00000 | 41.93471 | pg    | 5      | 15 |            |
| Methoxychlor       | A  | 2778.5       | 2570.2     | 200.0000 | 185.0033 | pg    | -7     | 15 |            |
| Endosulfan sulfate | A  | 6762.1       | 6644.6     | 40.00000 | 39.30489 | pg    | -2     | 15 |            |
| Endrin ketone      | A  | 7568.1       | 7740.8     | 40.00000 | 40.91278 | pg    | 2      | 15 |            |
| TCMX               | A  | 7232.1       | 6914.5     | 40.00000 | 38.24340 | pg    | -4     | 15 |            |
| Decachlorobiphenyl | A  | 8258.9       | 7615.0     | 40.00000 | 36.88173 | pg    | -8     | 15 |            |
| alpha-BHC          | B  | 39455        | 34488      | 20.00000 | 17.48229 | pg    | -13    | 15 |            |
| gamma-BHC          | B  | 36068        | 32284      | 20.00000 | 17.90175 | pg    | -10    | 15 |            |
| beta-BHC           | B  | 20609        | 16971      | 20.00000 | 16.46978 | pg    | -18    | 15 | c- rsd *** |
| delta-BHC          | B  | 40327        | 32711      | 20.00000 | 16.22322 | pg    | -19    | 15 | c- ***     |
| Heptachlor         | B  | 24752        | 25151      | 20.00000 | 20.32296 | pg    | 2      | 15 |            |
| Aldrin             | B  | 33444        | 30252      | 20.00000 | 18.09100 | pg    | -10    | 15 |            |
| Heptachlor epoxide | B  | 30710        | 28288      | 20.00000 | 18.42257 | pg    | -8     | 15 |            |
| gamma-Chlordane    | B  | 33862        | 31572      | 20.00000 | 18.64719 | pg    | -7     | 15 |            |
| alpha-Chlordane    | B  | 33070        | 30619      | 20.00000 | 18.51784 | pg    | -7     | 15 |            |
| 4,4'-DDE           | B  | 29911        | 28810      | 40.00000 | 38.52761 | pg    | -4     | 15 |            |
| Endosulfan I       | B  | 29530        | 27564      | 20.00000 | 18.66822 | pg    | -7     | 15 |            |
| Dieldrin           | B  | 29633        | 27915      | 40.00000 | 37.68102 | pg    | -6     | 15 |            |
| Endrin             | B  | 25174        | 25115      | 40.00000 | 39.90596 | pg    | 0      | 15 |            |
| 4,4'-DDD           | B  | 22737        | 22943      | 40.00000 | 40.36206 | pg    | 1      | 15 |            |
| Endosulfan II      | B  | 27406        | 24763      | 40.00000 | 36.14211 | pg    | -10    | 15 |            |
| 4,4'-DDT           | B  | 17382        | 17813      | 40.00000 | 40.99278 | pg    | 2      | 15 |            |
| Methoxychlor       | B  | 7476.3       | 7663.2     | 200.0000 | 205.0007 | pg    | 3      | 15 |            |
| Endosulfan sulfate | B  | 25780        | 21508      | 40.00000 | 33.37206 | pg    | -17    | 15 | c- ***     |
| Endrin ketone      | B  | 26458        | 23982      | 40.00000 | 36.25755 | pg    | -9     | 15 |            |
| TCMX               | B  | 28729        | 22628      | 40.00000 | 31.50564 | pg    | -21    | 15 | c-         |
| Decachlorobiphenyl | B  | 22109        | 18915      | 40.00000 | 34.22195 | pg    | -14    | 15 |            |
| Average EPA 8081A  | A  |              | (count=22) |          |          |       | 5      | 15 |            |
| Average EPA 8081A  | B  |              | (count=22) |          |          |       | 9      | 15 |            |

r=low bias c=CCV rsd=ICAL %RSD failure  
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CONTINUING CALIBRATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instid : GC16                      Run Name : ccv                      IDF : 1.0  
Seqnum : 234465868014            Filename : 323\_014            Injected : 18-NOV-2004 21:39  
Calnum : 234443043001            Caldate : 02-NOV-2004        Caltype :  
Standards: 04WS2051

| Analyte            | Ch | Avg<br>RF/CF | RF/CF      | SpkAmt   | QuantAmt | Units | %D Max | %D | Flags   |
|--------------------|----|--------------|------------|----------|----------|-------|--------|----|---------|
| alpha-BHC          | A  | 7979.0       | 7979.9     | 10.00000 | 10.00111 | pg    | 0      | 15 | rsd *** |
| gamma-BHC          | A  | 7843.4       | 8073.8     | 10.00000 | 10.29380 | pg    | 3      | 15 |         |
| beta-BHC           | A  | 4899.0       | 5023.0     | 10.00000 | 10.25294 | pg    | 3      | 15 |         |
| delta-BHC          | A  | 8293.4       | 7197.4     | 10.00000 | 8.678473 | pg    | -13    | 15 |         |
| Heptachlor         | A  | 7487.9       | 8406.6     | 10.00000 | 11.22679 | pg    | 12     | 15 |         |
| Aldrin             | A  | 7158.2       | 7442.7     | 10.00000 | 10.39740 | pg    | 4      | 15 |         |
| Heptachlor epoxide | A  | 7663.7       | 8530.7     | 10.00000 | 11.13130 | pg    | 11     | 15 |         |
| gamma-Chlordane    | A  | 8021.1       | 8557.0     | 10.00000 | 10.66812 | pg    | 7      | 15 |         |
| alpha-Chlordane    | A  | 8009.6       | 8622.9     | 10.00000 | 10.76573 | pg    | 8      | 15 |         |
| 4,4'-DDE           | A  | 7169.0       | 7778.2     | 20.00000 | 21.69968 | pg    | 8      | 15 |         |
| Endosulfan I       | A  | 7216.7       | 7760.8     | 10.00000 | 10.75396 | pg    | 8      | 15 |         |
| Dieldrin           | A  | 7299.6       | 8066.2     | 20.00000 | 22.10040 | pg    | 11     | 15 |         |
| Endrin             | A  | 6481.9       | 7200.3     | 20.00000 | 22.21668 | pg    | 11     | 15 |         |
| 4,4'-DDD           | A  | 5691.7       | 6072.0     | 20.00000 | 21.33657 | pg    | 7      | 15 |         |
| Endosulfan II      | A  | 7078.8       | 7569.3     | 20.00000 | 21.38578 | pg    | 7      | 15 |         |
| 4,4'-DDT           | A  | 5316.9       | 4821.8     | 20.00000 | 18.13758 | pg    | -9     | 15 |         |
| Methoxychlor       | A  | 2778.5       | 2672.0     | 100.0000 | 96.16542 | pg    | -4     | 15 |         |
| Endosulfan sulfate | A  | 6762.1       | 6590.3     | 20.00000 | 19.49198 | pg    | -3     | 15 |         |
| Endrin ketone      | A  | 7568.1       | 7525.6     | 20.00000 | 19.88780 | pg    | -1     | 15 |         |
| TCMX               | A  | 7232.1       | 8090.5     | 20.00000 | 22.37378 | pg    | 12     | 15 |         |
| Decachlorobiphenyl | A  | 8258.9       | 7920.8     | 20.00000 | 19.18138 | pg    | -4     | 15 |         |
| alpha-BHC          | B  | 39455        | 41945      | 10.00000 | 10.63114 | pg    | 6      | 15 |         |
| gamma-BHC          | B  | 36068        | 39351      | 10.00000 | 10.91030 | pg    | 9      | 15 |         |
| beta-BHC           | B  | 20609        | 21496      | 10.00000 | 10.43044 | pg    | 4      | 15 | rsd *** |
| delta-BHC          | B  | 40327        | 37762      | 10.00000 | 9.364121 | pg    | -6     | 15 |         |
| Heptachlor         | B  | 24752        | 30689      | 10.00000 | 12.39900 | pg    | 24     | 15 | c+ ***  |
| Aldrin             | B  | 33444        | 35811      | 10.00000 | 10.70773 | pg    | 7      | 15 |         |
| Heptachlor epoxide | B  | 30710        | 33678      | 10.00000 | 10.96635 | pg    | 10     | 15 |         |
| gamma-Chlordane    | B  | 33862        | 36372      | 10.00000 | 10.74121 | pg    | 7      | 15 |         |
| alpha-Chlordane    | B  | 33070        | 35435      | 10.00000 | 10.71503 | pg    | 7      | 15 |         |
| 4,4'-DDE           | B  | 29911        | 31325      | 20.00000 | 20.94570 | pg    | 5      | 15 |         |
| Endosulfan I       | B  | 29530        | 31993      | 10.00000 | 10.83419 | pg    | 8      | 15 |         |
| Dieldrin           | B  | 29633        | 31474      | 20.00000 | 21.24252 | pg    | 6      | 15 |         |
| Endrin             | B  | 25174        | 27783      | 20.00000 | 22.07297 | pg    | 10     | 15 |         |
| 4,4'-DDD           | B  | 22737        | 24542      | 20.00000 | 21.58738 | pg    | 8      | 15 |         |
| Endosulfan II      | B  | 27406        | 27389      | 20.00000 | 19.98743 | pg    | 0      | 15 |         |
| 4,4'-DDT           | B  | 17382        | 16725      | 20.00000 | 19.24431 | pg    | -4     | 15 |         |
| Methoxychlor       | B  | 7476.3       | 7594.6     | 100.0000 | 101.5817 | pg    | 2      | 15 |         |
| Endosulfan sulfate | B  | 25780        | 23144      | 20.00000 | 17.95520 | pg    | -10    | 15 |         |
| Endrin ketone      | B  | 26458        | 25096      | 20.00000 | 18.97086 | pg    | -5     | 15 |         |
| TCMX               | B  | 28729        | 28949      | 20.00000 | 20.15343 | pg    | 1      | 15 |         |
| Decachlorobiphenyl | B  | 22109        | 19916      | 20.00000 | 18.01660 | pg    | -10    | 15 |         |
| Average EPA 8081A  | A  |              | (count=22) |          |          |       | 7      | 15 |         |
| Average EPA 8081A  | B  |              | (count=22) |          |          |       | 7      | 15 |         |

h=high bias    c=CCV    rsd=ICAL %RSD failure  
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CONTINUING CALIBRATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest\_4 IDF : 1.0  
Seqnum : 234465868029 Filename : 323\_029 Injected : 19-NOV-2004 05:16  
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :  
Standards: 04WS2052

| Analyte            | Ch | Avg<br>RF/CF | RF/CF      | SpkAmt   | QuantAmt | Units | %D Max | %D | Flags      |
|--------------------|----|--------------|------------|----------|----------|-------|--------|----|------------|
| alpha-BHC          | A  | 7979.0       | 9674.0     | 20.00000 | 24.24854 | pg    | 21     | 15 | c+ rsd *** |
| gamma-BHC          | A  | 7843.4       | 9361.7     | 20.00000 | 23.87150 | pg    | 19     | 15 | c+ ***     |
| beta-BHC           | A  | 4899.0       | 5177.3     | 20.00000 | 21.13590 | pg    | 6      | 15 |            |
| delta-BHC          | A  | 8293.4       | 8610.2     | 20.00000 | 20.76410 | pg    | 4      | 15 |            |
| Heptachlor         | A  | 7487.9       | 8744.6     | 20.00000 | 23.35656 | pg    | 17     | 15 | c+ ***     |
| Aldrin             | A  | 7158.2       | 8210.8     | 20.00000 | 22.94097 | pg    | 15     | 15 |            |
| Heptachlor epoxide | A  | 7663.7       | 8634.2     | 20.00000 | 22.53256 | pg    | 13     | 15 |            |
| gamma-Chlordane    | A  | 8021.1       | 8871.7     | 20.00000 | 22.12098 | pg    | 11     | 15 |            |
| alpha-Chlordane    | A  | 8009.6       | 8878.6     | 20.00000 | 22.16978 | pg    | 11     | 15 |            |
| 4,4'-DDE           | A  | 7169.0       | 8265.1     | 40.00000 | 46.11606 | pg    | 15     | 15 |            |
| Endosulfan I       | A  | 7216.7       | 8029.7     | 20.00000 | 22.25321 | pg    | 11     | 15 |            |
| Dieldrin           | A  | 7299.6       | 8232.1     | 40.00000 | 45.10989 | pg    | 13     | 15 |            |
| Endrin             | A  | 6481.9       | 7257.6     | 40.00000 | 44.78692 | pg    | 12     | 15 |            |
| 4,4'-DDD           | A  | 5691.7       | 6318.1     | 40.00000 | 44.40207 | pg    | 11     | 15 |            |
| Endosulfan II      | A  | 7078.8       | 7539.2     | 40.00000 | 42.60119 | pg    | 7      | 15 |            |
| 4,4'-DDT           | A  | 5316.9       | 5625.4     | 40.00000 | 42.32075 | pg    | 6      | 15 |            |
| Methoxychlor       | A  | 2778.5       | 2588.0     | 200.0000 | 186.2856 | pg    | -7     | 15 |            |
| Endosulfan sulfate | A  | 6762.1       | 6419.7     | 40.00000 | 37.97457 | pg    | -5     | 15 |            |
| Endrin ketone      | A  | 7568.1       | 7527.8     | 40.00000 | 39.78730 | pg    | -1     | 15 |            |
| TCMX               | A  | 7232.1       | 8138.7     | 40.00000 | 45.01418 | pg    | 13     | 15 |            |
| Decachlorobiphenyl | A  | 8258.9       | 7067.3     | 40.00000 | 34.22904 | pg    | -14    | 15 |            |
| alpha-BHC          | B  | 39455        | 42444      | 20.00000 | 21.51516 | pg    | 8      | 15 |            |
| gamma-BHC          | B  | 36068        | 39203      | 20.00000 | 21.73832 | pg    | 9      | 15 |            |
| beta-BHC           | B  | 20609        | 19842      | 20.00000 | 19.25571 | pg    | -4     | 15 | rsd ***    |
| delta-BHC          | B  | 40327        | 37801      | 20.00000 | 18.74756 | pg    | -6     | 15 |            |
| Heptachlor         | B  | 24752        | 30074      | 20.00000 | 24.30061 | pg    | 22     | 15 | c+ ***     |
| Aldrin             | B  | 33444        | 35079      | 20.00000 | 20.97766 | pg    | 5      | 15 |            |
| Heptachlor epoxide | B  | 30710        | 31602      | 20.00000 | 20.58092 | pg    | 3      | 15 |            |
| gamma-Chlordane    | B  | 33862        | 34926      | 20.00000 | 20.62837 | pg    | 3      | 15 |            |
| alpha-Chlordane    | B  | 33070        | 33655      | 20.00000 | 20.35365 | pg    | 2      | 15 |            |
| 4,4'-DDE           | B  | 29911        | 30514      | 40.00000 | 40.80587 | pg    | 2      | 15 |            |
| Endosulfan I       | B  | 29530        | 29980      | 20.00000 | 20.30509 | pg    | 2      | 15 |            |
| Dieldrin           | B  | 29633        | 29805      | 40.00000 | 40.23141 | pg    | 1      | 15 |            |
| Endrin             | B  | 25174        | 26310      | 40.00000 | 41.80520 | pg    | 5      | 15 |            |
| 4,4'-DDD           | B  | 22737        | 23506      | 40.00000 | 41.35219 | pg    | 3      | 15 |            |
| Endosulfan II      | B  | 27406        | 25526      | 40.00000 | 37.25588 | pg    | -7     | 15 |            |
| 4,4'-DDT           | B  | 17382        | 18421      | 40.00000 | 42.39089 | pg    | 6      | 15 |            |
| Methoxychlor       | B  | 7476.3       | 7667.3     | 200.0000 | 205.1097 | pg    | 3      | 15 |            |
| Endosulfan sulfate | B  | 25780        | 21704      | 40.00000 | 33.67570 | pg    | -16    | 15 | c- ***     |
| Endrin ketone      | B  | 26458        | 24133      | 40.00000 | 36.48465 | pg    | -9     | 15 |            |
| TCMX               | B  | 28729        | 27685      | 40.00000 | 38.54614 | pg    | -4     | 15 |            |
| Decachlorobiphenyl | B  | 22109        | 18071      | 40.00000 | 32.69415 | pg    | -18    | 15 | c-         |
| Average EPA 8081A  | A  |              | (count=22) |          |          |       | 11     | 15 |            |
| Average EPA 8081A  | B  |              | (count=22) |          |          |       | 7      | 15 |            |

+ = high bias    - = low bias    c = CCV    rsd = ICAL %RSD failure  
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : ccv IDF : 1.0  
Seqnum : 234465868046 Filename : 323\_046 Injected : 19-NOV-2004 19:24  
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :  
Standards: 04WS1633

| Analyte            | Ch | Avg<br>RF/CF | RF/CF      | SpkAmt   | QuantAmt | Units | %D Max | %D | Flags   |
|--------------------|----|--------------|------------|----------|----------|-------|--------|----|---------|
| alpha-BHC          | A  | 7979.0       | 9092.6     | 25.00000 | 28.48915 | pg    | 14     | 15 | rsd *** |
| gamma-BHC          | A  | 7843.4       | 8913.0     | 25.00000 | 28.40915 | pg    | 14     | 15 |         |
| beta-BHC           | A  | 4899.0       | 5022.0     | 25.00000 | 25.62745 | pg    | 3      | 15 |         |
| delta-BHC          | A  | 8293.4       | 8817.9     | 25.00000 | 26.58131 | pg    | 6      | 15 |         |
| Heptachlor         | A  | 7487.9       | 7695.1     | 25.00000 | 25.69161 | pg    | 3      | 15 |         |
| Aldrin             | A  | 7158.2       | 8125.8     | 25.00000 | 28.37944 | pg    | 14     | 15 |         |
| Heptachlor epoxide | A  | 7663.7       | 8614.3     | 25.00000 | 28.10072 | pg    | 12     | 15 |         |
| gamma-Chlordane    | A  | 8021.1       | 9068.4     | 25.00000 | 28.26444 | pg    | 13     | 15 |         |
| alpha-Chlordane    | A  | 8009.6       | 9080.0     | 25.00000 | 28.34098 | pg    | 13     | 15 |         |
| 4,4'-DDE           | A  | 7169.0       | 8643.0     | 50.00000 | 60.28062 | pg    | 21     | 15 | c+ ***  |
| Endosulfan I       | A  | 7216.7       | 8199.8     | 25.00000 | 28.40579 | pg    | 14     | 15 |         |
| Dieldrin           | A  | 7299.6       | 8555.3     | 50.00000 | 58.60111 | pg    | 17     | 15 | c+ ***  |
| Endrin             | A  | 6481.9       | 7576.0     | 50.00000 | 58.44019 | pg    | 17     | 15 | c+ ***  |
| 4,4'-DDD           | A  | 5691.7       | 6824.2     | 50.00000 | 59.94915 | pg    | 20     | 15 | c+ ***  |
| Endosulfan II      | A  | 7078.8       | 7918.2     | 50.00000 | 55.92881 | pg    | 12     | 15 |         |
| 4,4'-DDT           | A  | 5316.9       | 5897.9     | 50.00000 | 55.46381 | pg    | 11     | 15 |         |
| Methoxychlor       | A  | 2778.5       | 2545.6     | 250.0000 | 229.0420 | pg    | -8     | 15 |         |
| Endosulfan sulfate | A  | 6762.1       | 6844.5     | 50.00000 | 50.60972 | pg    | 1      | 15 |         |
| Endrin ketone      | A  | 7568.1       | 8148.1     | 50.00000 | 53.83171 | pg    | 8      | 15 |         |
| TCMX               | A  | 7232.1       | 7295.5     | 50.00000 | 50.43837 | pg    | 1      | 15 |         |
| Decachlorobiphenyl | A  | 8258.9       | 7649.7     | 50.00000 | 46.31231 | pg    | -7     | 15 |         |
| alpha-BHC          | B  | 39455        | 39497      | 25.00000 | 25.02669 | pg    | 0      | 15 |         |
| gamma-BHC          | B  | 36068        | 37031      | 25.00000 | 25.66782 | pg    | 3      | 15 |         |
| beta-BHC           | B  | 20609        | 19166      | 25.00000 | 23.24994 | pg    | -7     | 15 | rsd *** |
| delta-BHC          | B  | 40327        | 37797      | 25.00000 | 23.43164 | pg    | -6     | 15 |         |
| Heptachlor         | B  | 24752        | 26529      | 25.00000 | 26.79507 | pg    | 7      | 15 |         |
| Aldrin             | B  | 33444        | 34333      | 25.00000 | 25.66472 | pg    | 3      | 15 |         |
| Heptachlor epoxide | B  | 30710        | 31340      | 25.00000 | 25.51266 | pg    | 2      | 15 |         |
| gamma-Chlordane    | B  | 33862        | 35862      | 25.00000 | 26.47669 | pg    | 6      | 15 |         |
| alpha-Chlordane    | B  | 33070        | 34375      | 25.00000 | 25.98634 | pg    | 4      | 15 |         |
| 4,4'-DDE           | B  | 29911        | 32070      | 50.00000 | 53.60855 | pg    | 7      | 15 |         |
| Endosulfan I       | B  | 29530        | 30411      | 25.00000 | 25.74561 | pg    | 3      | 15 |         |
| Dieldrin           | B  | 29633        | 30698      | 50.00000 | 51.79605 | pg    | 4      | 15 |         |
| Endrin             | B  | 25174        | 27437      | 50.00000 | 54.49472 | pg    | 9      | 15 |         |
| 4,4'-DDD           | B  | 22737        | 25193      | 50.00000 | 55.40082 | pg    | 11     | 15 |         |
| Endosulfan II      | B  | 27406        | 26867      | 50.00000 | 49.01695 | pg    | -2     | 15 |         |
| 4,4'-DDT           | B  | 17382        | 19030      | 50.00000 | 54.73979 | pg    | 9      | 15 |         |
| Methoxychlor       | B  | 7476.3       | 7738.0     | 250.0000 | 258.7514 | pg    | 4      | 15 |         |
| Endosulfan sulfate | B  | 25780        | 23068      | 50.00000 | 44.73943 | pg    | -11    | 15 |         |
| Endrin ketone      | B  | 26458        | 25865      | 50.00000 | 48.87893 | pg    | -2     | 15 |         |
| TCMX               | B  | 28729        | 25092      | 50.00000 | 43.67005 | pg    | -13    | 15 |         |
| Decachlorobiphenyl | B  | 22109        | 20033      | 50.00000 | 45.30422 | pg    | -9     | 15 |         |
| Average EPA 8081A  | A  |              | (count=22) |          |          |       | 10     | 15 |         |
| Average EPA 8081A  | B  |              | (count=22) |          |          |       | 6      | 15 |         |

+ = high bias c = CCV rsd = ICAL %RSD failure



CONTINUING CALIBRATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instid : GC21                      Run Name : pest\_4                      IDF : 1.0  
Seqnum : 244471586004              Filename : 327\_004              Injected : 22-NOV-2004 12:15  
Calnum : 244467602001              Caldate : 19-NOV-2004              Caltype :  
Standards: 04WS2052

| Analyte            | Ch | Avg<br>RF/CF | RF/CF      | SpkAmt   | QuantAmt | Units | %D Max | %D | Flags |
|--------------------|----|--------------|------------|----------|----------|-------|--------|----|-------|
| alpha-BHC          | A  | 12201        | 12006      | 20.00000 | 19.67932 | pg    | -2     | 15 |       |
| gamma-BHC          | A  | 11024        | 10960      | 20.00000 | 19.88351 | pg    | -1     | 15 |       |
| beta-BHC           | A  | 4742.3       | 4880.8     | 20.00000 | 20.58401 | pg    | 3      | 15 |       |
| delta-BHC          | A  | 10886        | 10568      | 20.00000 | 19.41596 | pg    | -3     | 15 |       |
| Heptachlor         | A  | 10553        | 11054      | 20.00000 | 20.94849 | pg    | 5      | 15 |       |
| Aldrin             | A  | 10523        | 11047      | 20.00000 | 20.99558 | pg    | 5      | 15 |       |
| Heptachlor epoxide | A  | 9603.6       | 10050      | 20.00000 | 20.92991 | pg    | 5      | 15 |       |
| gamma-Chlordane    | A  | 9739.5       | 10197      | 20.00000 | 20.93882 | pg    | 5      | 15 |       |
| alpha-Chlordane    | A  | 9366.3       | 9809.0     | 20.00000 | 20.94515 | pg    | 5      | 15 |       |
| 4,4'-DDE           | A  | 9452.1       | 10052      | 40.00000 | 42.53787 | pg    | 6      | 15 |       |
| Endosulfan I       | A  | 8659.7       | 8935.7     | 20.00000 | 20.63750 | pg    | 3      | 15 |       |
| Dieldrin           | A  | 9758.5       | 10367      | 40.00000 | 42.49580 | pg    | 6      | 15 |       |
| Endrin             | A  | 7258.5       | 7613.1     | 40.00000 | 41.95425 | pg    | 5      | 15 |       |
| 4,4'-DDD           | A  | 7459.9       | 7521.1     | 40.00000 | 40.32805 | pg    | 1      | 15 |       |
| Endosulfan II      | A  | 7559.0       | 7395.0     | 40.00000 | 39.13233 | pg    | -2     | 15 |       |
| 4,4'-DDT           | A  | 7227.2       | 8018.9     | 40.00000 | 44.38221 | pg    | 11     | 15 |       |
| Methoxychlor       | A  | 3052.7       | 3413.6     | 200.0000 | 223.6456 | pg    | 12     | 15 |       |
| Endosulfan sulfate | A  | 6631.6       | 7208.9     | 40.00000 | 43.48178 | pg    | 9      | 15 |       |
| Endrin ketone      | A  | 7269.3       | 6771.7     | 40.00000 | 37.26202 | pg    | -7     | 15 |       |
| TCMX               | A  | 7770.7       | 7925.4     | 40.00000 | 40.79640 | pg    | 2      | 15 |       |
| Decachlorobiphenyl | A  | 5153.7       | 5522.1     | 40.00000 | 42.85969 | pg    | 7      | 15 |       |
| alpha-BHC          | B  | 11473        | 12118      | 20.00000 | 21.12499 | pg    | 6      | 15 |       |
| gamma-BHC          | B  | 10009        | 10509      | 20.00000 | 20.99896 | pg    | 5      | 15 |       |
| beta-BHC           | B  | 3995.2       | 4212.3     | 20.00000 | 21.08678 | pg    | 5      | 15 |       |
| delta-BHC          | B  | 10005        | 10393      | 20.00000 | 20.77472 | pg    | 4      | 15 |       |
| Heptachlor         | B  | 8626.2       | 9047.7     | 20.00000 | 20.97714 | pg    | 5      | 15 |       |
| Aldrin             | B  | 8821.3       | 9292.6     | 20.00000 | 21.06861 | pg    | 5      | 15 |       |
| Heptachlor epoxide | B  | 7927.0       | 8327.9     | 20.00000 | 21.01166 | pg    | 5      | 15 |       |
| gamma-Chlordane    | B  | 7963.4       | 8285.3     | 20.00000 | 20.80851 | pg    | 4      | 15 |       |
| alpha-Chlordane    | B  | 7539.4       | 7835.3     | 20.00000 | 20.78489 | pg    | 4      | 15 |       |
| 4,4'-DDE           | B  | 7723.6       | 8206.4     | 40.00000 | 42.50068 | pg    | 6      | 15 |       |
| Endosulfan I       | B  | 7146.0       | 7423.0     | 20.00000 | 20.77515 | pg    | 4      | 15 |       |
| Dieldrin           | B  | 7793.3       | 7932.8     | 40.00000 | 40.71593 | pg    | 2      | 15 |       |
| Endrin             | B  | 5569.5       | 5288.1     | 40.00000 | 37.97866 | pg    | -5     | 15 |       |
| 4,4'-DDD           | B  | 6342.8       | 6050.2     | 40.00000 | 38.15468 | pg    | -5     | 15 |       |
| Endosulfan II      | B  | 6691.5       | 6848.8     | 40.00000 | 40.94019 | pg    | 2      | 15 |       |
| 4,4'-DDT           | B  | 5885.7       | 6202.8     | 40.00000 | 42.15535 | pg    | 5      | 15 |       |
| Methoxychlor       | B  | 2383.8       | 2342.1     | 200.0000 | 196.4985 | pg    | -2     | 15 |       |
| Endosulfan sulfate | B  | 5806.2       | 5834.2     | 40.00000 | 40.19283 | pg    | 0      | 15 |       |
| Endrin ketone      | B  | 7373.8       | 7204.5     | 40.00000 | 39.08163 | pg    | -2     | 15 |       |
| TCMX               | B  | 7362.8       | 7939.4     | 40.00000 | 43.13222 | pg    | 8      | 15 |       |
| Decachlorobiphenyl | B  | 4050.9       | 3974.6     | 40.00000 | 39.24600 | pg    | -2     | 15 |       |
| Average EPA 8081A  | A  |              | (count=22) |          |          |       | 5      | 15 |       |
| Average EPA 8081A  | B  |              | (count=22) |          |          |       | 4      | 15 |       |

CONTINUING CALIBRATION REPORT FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Instid : GC21                      Run Name : pest\_3                      IDF : 1.0  
Seqnum : 244471586010              Filename : 327\_010              Injected : 22-NOV-2004 15:18  
Calnum : 244467602001              Caldate : 19-NOV-2004              Caltype :  
Standards: 04WS2051

| Analyte            | Ch | Avg<br>RF/CF | RF/CF      | SpkAmt   | QuantAmt | Units | %D Max | %D Flags |
|--------------------|----|--------------|------------|----------|----------|-------|--------|----------|
| alpha-BHC          | A  | 12201        | 12623      | 10.00000 | 10.34563 | pg    | 3      | 15       |
| gamma-BHC          | A  | 11024        | 11529      | 10.00000 | 10.45793 | pg    | 5      | 15       |
| beta-BHC           | A  | 4742.3       | 5135.7     | 10.00000 | 10.82939 | pg    | 8      | 15       |
| delta-BHC          | A  | 10886        | 11282      | 10.00000 | 10.36386 | pg    | 4      | 15       |
| Heptachlor         | A  | 10553        | 11226      | 10.00000 | 10.63733 | pg    | 6      | 15       |
| Aldrin             | A  | 10523        | 11259      | 10.00000 | 10.69872 | pg    | 7      | 15       |
| Heptachlor epoxide | A  | 9603.6       | 10503      | 10.00000 | 10.93607 | pg    | 9      | 15       |
| gamma-Chlordane    | A  | 9739.5       | 10629      | 10.00000 | 10.91358 | pg    | 9      | 15       |
| alpha-Chlordane    | A  | 9366.3       | 10196      | 10.00000 | 10.88624 | pg    | 9      | 15       |
| 4,4'-DDE           | A  | 9452.1       | 10080      | 20.00000 | 21.32871 | pg    | 7      | 15       |
| Endosulfan I       | A  | 8659.7       | 9436.8     | 10.00000 | 10.89741 | pg    | 9      | 15       |
| Dieldrin           | A  | 9758.5       | 10469      | 20.00000 | 21.45552 | pg    | 7      | 15       |
| Endrin             | A  | 7258.5       | 7760.6     | 20.00000 | 21.38348 | pg    | 7      | 15       |
| 4,4'-DDD           | A  | 7459.9       | 7920.5     | 20.00000 | 21.23481 | pg    | 6      | 15       |
| Endosulfan II      | A  | 7559.0       | 7948.4     | 20.00000 | 21.03018 | pg    | 5      | 15       |
| 4,4'-DDT           | A  | 7227.2       | 7865.5     | 20.00000 | 21.76639 | pg    | 9      | 15       |
| Methoxychlor       | A  | 3052.7       | 3353.7     | 100.0000 | 109.8628 | pg    | 10     | 15       |
| Endosulfan sulfate | A  | 6631.6       | 7355.9     | 20.00000 | 22.18431 | pg    | 11     | 15       |
| Endrin ketone      | A  | 7269.3       | 7572.0     | 20.00000 | 20.83277 | pg    | 4      | 15       |
| TCMX               | A  | 7770.7       | 8182.0     | 20.00000 | 21.05859 | pg    | 5      | 15       |
| Decachlorobiphenyl | A  | 5153.7       | 5514.8     | 20.00000 | 21.40154 | pg    | 7      | 15       |
| alpha-BHC          | B  | 11473        | 12531      | 10.00000 | 10.92219 | pg    | 9      | 15       |
| gamma-BHC          | B  | 10009        | 10858      | 10.00000 | 10.84800 | pg    | 8      | 15       |
| beta-BHC           | B  | 3995.2       | 4432.3     | 10.00000 | 11.09393 | pg    | 11     | 15       |
| delta-BHC          | B  | 10005        | 10895      | 10.00000 | 10.88931 | pg    | 9      | 15       |
| Heptachlor         | B  | 8626.2       | 9485.1     | 10.00000 | 10.99569 | pg    | 10     | 15       |
| Aldrin             | B  | 8821.3       | 9818.6     | 10.00000 | 11.13059 | pg    | 11     | 15       |
| Heptachlor epoxide | B  | 7927.0       | 8830.6     | 10.00000 | 11.13990 | pg    | 11     | 15       |
| gamma-Chlordane    | B  | 7963.4       | 8832.5     | 10.00000 | 11.09128 | pg    | 11     | 15       |
| alpha-Chlordane    | B  | 7539.4       | 8381.8     | 10.00000 | 11.11727 | pg    | 11     | 15       |
| 4,4'-DDE           | B  | 7723.6       | 8438.0     | 20.00000 | 21.85006 | pg    | 9      | 15       |
| Endosulfan I       | B  | 7146.0       | 7996.5     | 10.00000 | 11.19019 | pg    | 12     | 15       |
| Dieldrin           | B  | 7793.3       | 8419.1     | 20.00000 | 21.60594 | pg    | 8      | 15       |
| Endrin             | B  | 5569.5       | 5644.0     | 20.00000 | 20.26735 | pg    | 1      | 15       |
| 4,4'-DDD           | B  | 6342.8       | 6671.6     | 20.00000 | 21.03669 | pg    | 5      | 15       |
| Endosulfan II      | B  | 6691.5       | 7228.9     | 20.00000 | 21.60593 | pg    | 8      | 15       |
| 4,4'-DDT           | B  | 5885.7       | 6221.9     | 20.00000 | 21.14265 | pg    | 6      | 15       |
| Methoxychlor       | B  | 2383.8       | 2413.6     | 100.0000 | 101.2492 | pg    | 1      | 15       |
| Endosulfan sulfate | B  | 5806.2       | 6203.3     | 20.00000 | 21.36795 | pg    | 7      | 15       |
| Endrin ketone      | B  | 7373.8       | 7840.7     | 20.00000 | 21.26653 | pg    | 6      | 15       |
| TCMX               | B  | 7362.8       | 8099.7     | 20.00000 | 22.00162 | pg    | 10     | 15       |
| Decachlorobiphenyl | B  | 4050.9       | 4056.4     | 20.00000 | 20.02706 | pg    | 0      | 15       |
| Average EPA 8081A  | A  |              | (count=22) |          |          |       | 7      | 15       |
| Average EPA 8081A  | B  |              | (count=22) |          |          |       | 8      | 15       |

# SEQUENCE SUMMARY FOR 176111 8081 Soil Curtis & Tompkins Laboratories

Sequence: 234443043 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 02-NOV-2004  
Analytical Method: EPA 8081A SOP Version: 8081\_rv7

| #   | Filename | Type | Samplenum | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Stds | Used | >LR |
|-----|----------|------|-----------|-------|--------|-------------|-------|-----|-----|----|----|----|------|------|-----|
| 006 | 307_006  | PEM  |           |       |        | 02-NOV-2004 | 16:03 | 1.0 |     |    |    |    | 1    |      |     |
| 007 | 307_007  | CCV  | pest_4    |       |        | 02-NOV-2004 | 16:34 | 1.0 |     |    |    |    | 2    |      |     |
| 008 | 307_008  | X    | ccv       |       |        | 02-NOV-2004 | 17:05 | 1.0 |     |    |    |    | 2    |      |     |
| 009 | 307_009  | X    | ccv       |       |        | 02-NOV-2004 | 17:36 | 1.0 |     |    |    |    | 2    |      |     |
| 010 | 307_010  | X    | primer    |       |        | 02-NOV-2004 | 18:42 | 1.0 |     |    |    |    |      |      |     |
| 017 | 307_017  | PEM  |           |       |        | 02-NOV-2004 | 22:17 | 1.0 |     |    |    |    | 1    |      |     |
| 018 | 307_018  | X    | hex       |       |        | 02-NOV-2004 | 22:48 | 1.0 |     |    |    |    |      |      |     |
| 019 | 307_019  | X    | hex       |       |        | 02-NOV-2004 | 23:18 | 1.0 |     |    |    |    |      |      |     |
| 020 | 307_020  | ICAL | pest_1    |       |        | 02-NOV-2004 | 23:49 | 1.0 |     |    |    |    | 3    |      |     |
| 021 | 307_021  | ICAL | pest_2    |       |        | 03-NOV-2004 | 00:19 | 1.0 |     |    |    |    | 4    |      |     |
| 022 | 307_022  | ICAL | pest_3    |       |        | 03-NOV-2004 | 00:50 | 1.0 |     |    |    |    | 5    |      |     |
| 023 | 307_023  | ICAL | pest_4    |       |        | 03-NOV-2004 | 01:21 | 1.0 |     |    |    |    | 2    |      |     |
| 024 | 307_024  | ICAL | pest_5    |       |        | 03-NOV-2004 | 01:52 | 1.0 |     |    |    |    | 6    |      |     |
| 025 | 307_025  | ICAL | pest_6    |       |        | 03-NOV-2004 | 02:22 | 1.0 |     |    |    |    | 7    |      |     |
| 026 | 307_026  | ICAL | pest_7    |       |        | 03-NOV-2004 | 02:54 | 1.0 |     |    |    |    | 8    |      |     |
| 028 | 307_028  | X    | icv       |       |        | 03-NOV-2004 | 03:55 | 1.0 |     |    |    |    | 9    |      |     |
| 029 | 307_029  | X    |           |       |        | 03-NOV-2004 | 04:25 | 1.0 |     |    |    |    | 9    |      |     |
| 034 | 307_034  | X    |           |       |        | 03-NOV-2004 | 14:33 | 1.0 |     |    |    |    | 10   |      |     |
| 035 | 307_035  | ICV  | icv       |       |        | 03-NOV-2004 | 15:12 | 1.0 |     |    |    |    | 10   |      |     |
|     |          |      |           |       |        |             |       |     | 2   |    | 1  |    |      |      |     |

Stds used: 1=04WS1614 2=04WS1632 3=04WS1628 4=04WS1629 5=04WS1630 6=04WS1633 7=04WS1634 8=04WS1635 9=04WS1584 10=04WS2099

# SEQUENCE SUMMARY FOR 176111 8081 Soil Curtis & Tompkins Laboratories

Sequence: 234465868 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 18-NOV-2004  
Analytical Method: EPA 8081A SOP Version: 8081\_rv7

| #   | Filename | Type   | Samplenum  | Batch | Matrix | Analyzed    | IDF   | PDF | IOC    | SPK | uL | Stds | Used | >LR |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|--------|-----|----|------|------|-----|
| 002 | 323_002  | PEM    |            |       |        | 18-NOV-2004 | 12:28 | 1.0 | 1.0    |     | 1  | 1    |      |     |
| 003 | 323_003  | X      | pest_4     |       |        | 18-NOV-2004 | 12:59 | 1.0 |        |     |    | 2    |      |     |
| 004 | 323_004  | CCV    | ccv        |       |        | 18-NOV-2004 | 13:29 | 1.0 | 1.0    | 4   | 1  | 2    |      |     |
| 005 | 323_005  | X      | ccv        |       |        | 18-NOV-2004 | 15:29 | 1.0 |        |     |    | 2    |      |     |
| 006 | 323_006  | X      | ccv        |       |        | 18-NOV-2004 | 17:35 | 1.0 |        |     |    | 2    |      |     |
| 008 | 323_008  | BLANK  | QC272837   | 96630 | Soil   | 18-NOV-2004 | 18:36 | 1.0 | 0.6618 | 3   | 1  |      |      |     |
| 009 | 323_009  | LCS    | QC272838   | 96630 | Soil   | 18-NOV-2004 | 19:07 | 1.0 | 0.6676 | 5   | 1  |      |      |     |
| 010 | 323_010  | SAMPLE | 176111-005 | 96630 | Soil   | 18-NOV-2004 | 19:37 | 1.0 | 0.664  | 3   | 1  |      |      |     |
| 012 | 323_012  | PEM    |            |       |        | 18-NOV-2004 | 20:38 | 1.0 | 1.0    |     | 1  | 1    |      |     |
| 013 | 323_013  | X      | pest_3     |       |        | 18-NOV-2004 | 21:09 | 1.0 |        |     |    | 3    |      |     |
| 014 | 323_014  | CCV    | ccv        |       |        | 18-NOV-2004 | 21:39 | 1.0 | 1.0    | 3   | 1  | 3    |      |     |
| 015 | 323_015  | X      | ccv        |       |        | 18-NOV-2004 | 22:10 | 1.0 |        |     |    | 4    |      |     |
| 016 | 323_016  | X      | pe         |       |        | 18-NOV-2004 | 22:40 | 1.0 |        |     |    | 1    |      |     |
| 018 | 323_018  | SAMPLE | 176064-019 | 96630 | Soil   | 18-NOV-2004 | 23:41 | 1.0 | 0.6684 |     | 1  |      |      |     |
| 019 | 323_019  | SAMPLE | 176064-020 | 96630 | Soil   | 19-NOV-2004 | 00:12 | 1.0 | 0.6649 |     | 1  |      |      |     |
| 020 | 323_020  | SAMPLE | 176064-021 | 96630 | Soil   | 19-NOV-2004 | 00:42 | 1.0 | 0.657  |     | 1  |      |      |     |
| 021 | 323_021  | SAMPLE | 176064-022 | 96630 | Soil   | 19-NOV-2004 | 01:13 | 1.0 | 0.6645 |     | 1  |      |      |     |
| 022 | 323_022  | SAMPLE | 176064-023 | 96630 | Soil   | 19-NOV-2004 | 01:43 | 1.0 | 0.6645 |     | 1  |      |      |     |
| 023 | 323_023  | SAMPLE | 176064-024 | 96630 | Soil   | 19-NOV-2004 | 02:13 | 1.0 | 0.6671 |     | 1  |      |      |     |
| 024 | 323_024  | SAMPLE | 176064-025 | 96630 | Soil   | 19-NOV-2004 | 02:44 | 1.0 | 0.6579 |     | 1  |      |      |     |
| 025 | 323_025  | MSS    | 176064-026 | 96630 | Soil   | 19-NOV-2004 | 03:14 | 1.0 | 0.6605 | 1   | 1  |      |      |     |
| 026 | 323_026  | SAMPLE | 176064-027 | 96630 | Soil   | 19-NOV-2004 | 03:45 | 1.0 | 0.6667 |     | 1  |      |      |     |
| 027 | 323_027  | X      | hex        |       |        | 19-NOV-2004 | 04:15 | 1.0 |        |     |    |      |      |     |
| 028 | 323_028  | X      | pe         |       |        | 19-NOV-2004 | 04:46 | 1.0 | 1.0    |     | 1  | 5    |      |     |
| 029 | 323_029  | CCV    | pest_4     |       |        | 19-NOV-2004 | 05:16 | 1.0 | 1.0    | 6   | 1  | 2    |      |     |
| 030 | 323_030  | X      | ccv        |       |        | 19-NOV-2004 | 05:47 | 1.0 | 1.0    |     | 1  | 2    |      |     |
| 031 | 323_031  | PEM    |            |       |        | 19-NOV-2004 | 06:17 | 1.0 | 1.0    |     | 1  | 5    |      |     |
| 033 | 323_033  | SAMPLE | 176065-001 | 96630 | Soil   | 19-NOV-2004 | 12:30 | 1.0 | 0.6698 | 1   | 1  |      |      |     |
| 034 | 323_034  | SAMPLE | 176065-002 | 96630 | Soil   | 19-NOV-2004 | 13:01 | 5.0 | 0.6609 | 2   | 1  |      |      |     |
| 035 | 323_035  | LCS    | QC272838   | 96630 | Soil   | 19-NOV-2004 | 13:36 | 1.0 | 0.6676 | 10  | 1  |      |      |     |
| 036 | 323_036  | SAMPLE | 176065-003 | 96630 | Soil   | 19-NOV-2004 | 14:07 | 1.0 | 0.6676 | 1   | 1  |      |      |     |

stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS1633 5=04WS1614

SEQUENCE SUMMARY FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Sequence: 234465868 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 18-NOV-2004  
Analytical Method: EPA 8081A SOP Version: 8081\_rv7

| #   | Filename | Type   | Samplenum  | Batch | Matrix | Analyzed    | IDF   | PDF | IQC    | SPK | uL | Stds | Used | >LR |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|--------|-----|----|------|------|-----|
| 037 | 323_037  | SAMPLE | 176085-001 | 96630 | Soil   | 19-NOV-2004 | 14:37 | 1.0 | 0.6588 | 1   | 1  |      |      |     |
| 040 | 323_040  | MS     | QC272839   | 96630 | Soil   | 19-NOV-2004 | 16:09 | 1.0 | 0.6707 | 10  | 1  |      |      |     |
| 041 | 323_041  | MSD    | QC272840   | 96630 | Soil   | 19-NOV-2004 | 16:39 | 1.0 | 0.6693 | 10  | 1  |      |      |     |
| 043 | 323_043  | PEM    | pest_3     |       |        | 19-NOV-2004 | 17:53 | 1.0 | 1.0    |     | 1  | 1    |      |     |
| 044 | 323_044  | CCV    | ccv        |       |        | 19-NOV-2004 | 18:23 | 1.0 |        |     |    | 3    |      |     |
| 045 | 323_045  | X      | ccv        |       |        | 19-NOV-2004 | 18:54 | 1.0 |        |     |    | 3    |      |     |
| 046 | 323_046  | CCV    | ccv        |       |        | 19-NOV-2004 | 19:24 | 1.0 | 1.0    | 6   | 1  | 4    |      |     |
| 047 | 323_047  | X      | pest_3     |       |        | 19-NOV-2004 | 19:55 | 1.0 |        |     |    | 1    |      |     |
| 049 | 323_049  | SAMPLE | 176102-021 | 96630 | Soil   | 19-NOV-2004 | 20:56 | 1.0 | 0.6631 | 1   | 1  |      |      |     |
| 050 | 323_050  | SAMPLE | 176102-022 | 96630 | Soil   | 19-NOV-2004 | 21:26 | 4.0 | 0.6627 | 1   | 1  |      |      |     |
| 052 | 323_052  | PEM    | pest_4     |       |        | 19-NOV-2004 | 22:27 | 1.0 | 1.0    |     | 1  | 5    |      |     |
| 053 | 323_053  | CCV    | ccv        |       |        | 19-NOV-2004 | 22:58 | 1.0 | 1.0    | 12  | 1  | 2    |      |     |
| 054 | 323_054  | X      | ccv        |       |        | 19-NOV-2004 | 23:28 | 1.0 |        |     |    | 2    |      |     |
| 055 | 323_055  | X      | pest_4     |       |        | 19-NOV-2004 | 23:59 | 1.0 |        |     |    | 5    |      |     |

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Stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS1633 5=04WS1614



SEQUENCE SUMMARY FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Sequence: 244467602 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 19-NOV-2004  
Analytical Method: EPA 8081A SOP Version: 8081\_rv7

| #   | Filename | Type | Samplenum | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Std | Used | >LR             |
|-----|----------|------|-----------|-------|--------|-------------|-------|-----|-----|----|----|----|-----|------|-----------------|
| 002 | 324_002  | PEM  |           |       |        | 19-NOV-2004 | 17:22 | 1.0 |     | 1  |    |    | 1   |      | 2:DDT44=261.779 |
| 003 | 324_003  | X    | hex       |       |        | 19-NOV-2004 | 17:51 | 1.0 |     |    |    |    |     |      |                 |
| 004 | 324_004  | X    | hex       |       |        | 19-NOV-2004 | 18:20 | 1.0 |     |    |    |    |     |      |                 |
| 005 | 324_005  | ICAL | pest_1    |       |        | 19-NOV-2004 | 18:49 | 1.0 |     |    |    |    | 2   |      |                 |
| 006 | 324_006  | ICAL | pest_2    |       |        | 19-NOV-2004 | 19:19 | 1.0 |     |    |    |    | 3   |      |                 |
| 007 | 324_007  | ICAL | pest_3    |       |        | 19-NOV-2004 | 19:48 | 1.0 |     |    |    |    | 4   |      |                 |
| 008 | 324_008  | ICAL | pest_4    |       |        | 19-NOV-2004 | 20:17 | 1.0 |     |    |    |    | 5   |      |                 |
| 009 | 324_009  | ICAL | pest_5    |       |        | 19-NOV-2004 | 20:46 | 1.0 |     |    |    |    | 6   |      |                 |
| 010 | 324_010  | ICAL | pest_6    |       |        | 19-NOV-2004 | 21:15 | 1.0 |     |    |    |    | 7   |      |                 |
| 011 | 324_011  | ICAL | pest_7    |       |        | 19-NOV-2004 | 21:44 | 1.0 |     |    |    |    | 8   |      |                 |
| 013 | 324_013  | ICV  |           |       |        | 19-NOV-2004 | 22:42 | 1.0 |     | 1  |    |    | 9   |      |                 |
| 014 | 324_014  | X    | icv       |       |        | 19-NOV-2004 | 23:11 | 1.0 |     |    |    |    | 9   |      |                 |

SEQUENCE SUMMARY FOR 176111 8081 Soil  
Curtis & Tompkins Laboratories

Sequence: 244471586 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 22-NOV-2004  
Analytical Method: EPA 8081A SOP Version: 8081\_rv7

| #   | Filename | Type | Samplenum | Batch | Matrix | Analyzed    | IDF   | PDF | IQC    | SPK | uL | Stds | Used | >LR |
|-----|----------|------|-----------|-------|--------|-------------|-------|-----|--------|-----|----|------|------|-----|
| 003 | 327_003  | PEM  |           |       |        | 22-NOV-2004 | 11:46 | 1.0 | 1.0    |     | 1  | 1    |      |     |
| 004 | 327_004  | CCV  | pest_4    |       |        | 22-NOV-2004 | 12:15 | 1.0 | 1.0    |     | 1  | 2    |      |     |
| 005 | 327_005  | X    | ccv       |       |        | 22-NOV-2004 | 12:44 | 1.0 |        |     |    | 2    |      |     |
| 006 | 327_006  | X    |           |       |        | 22-NOV-2004 | 13:22 | 1.0 | 1.0    |     | 1  | 1    |      |     |
| 007 | 327_007  | LCS  | QC272838  | 96630 | Soil   | 22-NOV-2004 | 13:51 | 1.0 | 0.6676 |     | 1  |      |      |     |
| 009 | 327_009  | PEM  |           |       |        | 22-NOV-2004 | 14:49 | 1.0 | 1.0    |     | 1  | 3    |      |     |
| 010 | 327_010  | CCV  | pest_3    |       |        | 22-NOV-2004 | 15:18 | 1.0 | 1.0    |     | 1  | 4    |      |     |

## Reporting Summary for 176111 8081 Soil

| Sample ID  | Analyte               | Inst ID | Ch | Date & Time    |
|------------|-----------------------|---------|----|----------------|
| 176111-005 | alpha-BHC             | GC16    | B  | 11/18/04 19:37 |
| 176111-005 | beta-BHC              | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | gamma-BHC             | GC16    | B  | 11/18/04 19:37 |
| 176111-005 | delta-BHC             | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Heptachlor            | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Aldrin                | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Heptachlor epoxide    | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Endosulfan I          | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Dieldrin              | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | 4,4'-DDE              | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Endrin                | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Endosulfan II         | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Endosulfan sulfate    | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | 4,4'-DDD              | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Endrin ketone         | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | 4,4'-DDT              | GC16    | B  | 11/18/04 19:37 |
| 176111-005 | Chlordane (Technical) | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | alpha-Chlordane       | GC16    | B  | 11/18/04 19:37 |
| 176111-005 | gamma-Chlordane       | GC16    | B  | 11/18/04 19:37 |
| 176111-005 | Methoxychlor          | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Toxaphene             | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | TCMX                  | GC16    | A  | 11/18/04 19:37 |
| 176111-005 | Decachlorobiphenyl    | GC16    | A  | 11/18/04 19:37 |
| QC272837   | alpha-BHC             | GC16    | B  | 11/18/04 18:36 |
| QC272837   | beta-BHC              | GC16    | A  | 11/18/04 18:36 |
| QC272837   | gamma-BHC             | GC16    | A  | 11/18/04 18:36 |
| QC272837   | delta-BHC             | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Heptachlor            | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Aldrin                | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Heptachlor epoxide    | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Endosulfan I          | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Dieldrin              | GC16    | A  | 11/18/04 18:36 |
| QC272837   | 4,4'-DDE              | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Endrin                | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Endosulfan II         | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Endosulfan sulfate    | GC16    | A  | 11/18/04 18:36 |
| QC272837   | 4,4'-DDD              | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Endrin ketone         | GC16    | A  | 11/18/04 18:36 |
| QC272837   | 4,4'-DDT              | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Chlordane (Technical) | GC16    | A  | 11/18/04 18:36 |
| QC272837   | alpha-Chlordane       | GC16    | A  | 11/18/04 18:36 |
| QC272837   | gamma-Chlordane       | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Methoxychlor          | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Toxaphene             | GC16    | A  | 11/18/04 18:36 |
| QC272837   | TCMX                  | GC16    | A  | 11/18/04 18:36 |
| QC272837   | Decachlorobiphenyl    | GC16    | A  | 11/18/04 18:36 |
| QC272838   | gamma-BHC             | GC21    | A  | 11/22/04 13:51 |

## Reporting Summary for 176111 8081 Soil

| Sample ID | Analyte            | Inst ID | Ch | Date & Time    |
|-----------|--------------------|---------|----|----------------|
| QC272838  | Heptachlor         | GC21    | A  | 11/22/04 13:51 |
| QC272838  | Aldrin             | GC21    | A  | 11/22/04 13:51 |
| QC272838  | Dieldrin           | GC21    | A  | 11/22/04 13:51 |
| QC272838  | Endrin             | GC21    | A  | 11/22/04 13:51 |
| QC272838  | 4,4'-DDT           | GC21    | A  | 11/22/04 13:51 |
| QC272838  | TCMX               | GC21    | A  | 11/22/04 13:51 |
| QC272838  | Decachlorobiphenyl | GC21    | A  | 11/22/04 13:51 |
| QC272839  | gamma-BHC          | GC16    | B  | 11/19/04 16:09 |
| QC272839  | Heptachlor         | GC16    | B  | 11/19/04 16:09 |
| QC272839  | Aldrin             | GC16    | B  | 11/19/04 16:09 |
| QC272839  | Dieldrin           | GC16    | B  | 11/19/04 16:09 |
| QC272839  | Endrin             | GC16    | B  | 11/19/04 16:09 |
| QC272839  | 4,4'-DDT           | GC16    | B  | 11/19/04 16:09 |
| QC272839  | TCMX               | GC16    | B  | 11/19/04 16:09 |
| QC272839  | Decachlorobiphenyl | GC16    | A  | 11/19/04 16:09 |
| QC272840  | gamma-BHC          | GC16    | B  | 11/19/04 16:39 |
| QC272840  | Heptachlor         | GC16    | B  | 11/19/04 16:39 |
| QC272840  | Aldrin             | GC16    | B  | 11/19/04 16:39 |
| QC272840  | Dieldrin           | GC16    | B  | 11/19/04 16:39 |
| QC272840  | Endrin             | GC16    | B  | 11/19/04 16:39 |
| QC272840  | 4,4'-DDT           | GC16    | B  | 11/19/04 16:39 |
| QC272840  | TCMX               | GC16    | B  | 11/19/04 16:39 |
| QC272840  | Decachlorobiphenyl | GC16    | A  | 11/19/04 16:39 |

Curtis & Tompkins Laboratories

Sample Preparation Summary

19-NOV-2004 10:23

Batch Number : 96630  
 Date Extracted: 18-NOV-2004  
 Extracted by : Brook N. Buswell  
 Prep Method : 3545

Analysis : 8081  
 Bgroup : N/A  
 Units : g  
 Clean-up :

Spike #1 ID : 04WS1994A  
 Spike #2 ID : 04WS1551E  
 Spike #3 ID :  
 SOP Version : 8081ASE rv0

| Sample     | Type | Client                         | Matrix | Init Units | Final Prep | Clean pH | Sp. 1 | Sp. 2 | Sp. 3 | Analyses | Clean  | Comments |
|------------|------|--------------------------------|--------|------------|------------|----------|-------|-------|-------|----------|--------|----------|
|            |      |                                |        | W/V        | D.F.       | D.F.     | Vol   | Vol   | Vol   |          | Method |          |
| 176064-019 |      | Innovative Technical Solutions | Soil   | 14.96 g    | 10         | 0.668449 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176064-020 |      | Innovative Technical Solutions | Soil   | 15.04 g    | 10         | 0.664894 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176064-021 |      | Innovative Technical Solutions | Soil   | 15.22 g    | 10         | 0.657030 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176064-022 |      | Innovative Technical Solutions | Soil   | 15.05 g    | 10         | 0.664452 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176064-023 |      | Innovative Technical Solutions | Soil   | 15.05 g    | 10         | 0.664452 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176064-024 |      | Innovative Technical Solutions | Soil   | 14.99 g    | 10         | 0.667111 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176064-025 |      | Innovative Technical Solutions | Soil   | 15.2 g     | 10         | 0.657895 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176064-026 |      | Innovative Technical Solutions | Soil   | 15.14 g    | 10         | 0.660502 | 1     | .01   | 0     | 8081     | 36208  | mss      |
| 176064-027 |      | Innovative Technical Solutions | Soil   | 15 g       | 10         | 0.666667 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176065-001 |      | LFR Levine Fricke              | Soil   | 14.93 g    | 10         | 0.669792 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176065-002 |      | LFR Levine Fricke              | Soil   | 15.13 g    | 10         | 0.660939 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176065-003 |      | LFR Levine Fricke              | Soil   | 14.98 g    | 10         | 0.667557 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176085-001 |      | URS Corporation                | Soil   | 15.18 g    | 10         | 0.658762 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176102-021 |      | Baseline Environmental         | Soil   | 15.08 g    | 10         | 0.663130 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176102-022 |      | Baseline Environmental         | Soil   | 15.09 g    | 10         | 0.662691 | 1     | .01   | 0     | 8081     | 36208  |          |
| 176111-005 |      | Treadwell & Rollo              | Soil   | 15.06 g    | 10         | 0.664011 | 1     | .01   | 0     | 8081     | 36208  |          |
| QC272837   | MB   |                                | Soil   | 15.11 g    | 10         | 0.661813 | 1     | .01   | 0     | 8081     | 36208  |          |
| QC272838   | LCS  |                                | Soil   | 14.98 g    | 10         | 0.667557 | 1     | .01   | .5    | 8081     | 36208  |          |
| QC272839   | MS   |                                | Soil   | 14.91 g    | 10         | 0.670691 | 1     | .01   | .5    | 8081     | 36208  |          |
| QC272840   | MSD  |                                | Soil   | 14.94 g    | 10         | 0.669344 | 1     | .01   | .5    | 8081     | 36208  |          |

of 176064-026  
 of 176064-026

Prep Chemist: [Signature] Date: 11/19/04  
 Relinquished By: [Signature] Date: 11/19/04



LIMS Batch No: 96630

Extraction Method:

Cleanup Method:

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LIMS Analysis: 8081

☐ EPA 3550b Sonication☐ EPA 3640a GPC

Extracted by: FRS

☒ EPA 3545 PFE (Mth# 10)☒ EPA 3620b Florisil

Date Extracted: 11/18/04

☐ EPA 3540c Soxhlet☐☐

Cleanup

| Sample # and letter | Sample Wt (g) | Final Vol. (mL) (x if needed) | Comments                  |
|---------------------|---------------|-------------------------------|---------------------------|
| MS 0C272837         | 15.11         | 10.0                          | X                         |
| MS ↓ 8              | 14.98         |                               |                           |
| MS ↓ 9              | 14.91         |                               | of 176064-026             |
| MSD ↓ 40            | 14.94         |                               | ↓                         |
| 176064-019          | 14.96         |                               |                           |
| ↓ -020              | 15.04         |                               |                           |
| ↓ -021              | 15.22         |                               |                           |
| ↓ -022              | 15.05         |                               |                           |
| ↓ -023              | 15.05         |                               |                           |
| 10 ↓ -024           | 14.99         |                               |                           |
| ↓ -025              | 15.20         |                               |                           |
| ↓ -026              | 15.14         |                               | MSS                       |
| ↓ -027              | 15.00         |                               |                           |
| 176065-001          | 14.93         |                               |                           |
| 15 ↓ -002           | 15.13         |                               |                           |
| ↓ -003              | 14.98         |                               | 2X normal vol. out of ASE |
| 176085-001          | 15.18         |                               |                           |
| 17602-021           | 15.03         |                               |                           |
| ↓ -022              | 15.09         |                               |                           |
| 20 176111-005       | 15.06         |                               |                           |
| 82 11/19/04         |               |                               |                           |

Sand weighed out for QC samples  
 dried with CH<sub>2</sub>Cl<sub>2</sub> rinsed ☐ granular Na<sub>2</sub>SO<sub>4</sub> ☒ diatomaceous earth  
 0.5 mL of surrogate solution was added to all samples  
 0.5 mL of spike solution was added to all spikes  
 1:1 CH<sub>2</sub>Cl<sub>2</sub> (lot# E.A. 4427) Acetone (lot# E.W. 1753) was added to all  
☐ sonicated 3 times w/ ≥100mL ☒ PFE extracted ☐ Soxhlet extracted  
 ASE Cellulose Filters used:  
 Soxhlet on at: ☒  
 Soxhlet off at: ☒  
 Extracts filtered through baked, CH<sub>2</sub>Cl<sub>2</sub> rinsed, powdered Na<sub>2</sub>SO<sub>4</sub>  
 Exchanged 2x with Hexane  
 Concentrated: ☒ to volumes as noted above ☐ to clean-up volume  
 Clean-up (if necessary): ☐ GPC (see GPC run log) ☒ Florisil

| Mfg & Lot # / LIMS # / Time | Initials / Date |
|-----------------------------|-----------------|
| EMSC 1028421                | DB 11/18/04     |
| DE-NEV 040112               |                 |
| 041031994A                  |                 |
| 041031557E                  |                 |
| ✓                           |                 |
| ✓                           |                 |
| D28 WATMAN                  |                 |
| ✓                           |                 |
| ✓                           |                 |
| ✓                           |                 |
| CM 22.2                     | DB 11/19/04     |
| ✓                           |                 |
| FRS ✓                       | BM 11/19/04     |

Extraction Chemist / Date

Continued from page  
Continued on page

Reviewed by / Date

Prep Chemist: 223Cleanup Date: 11/18/04

| Sample #     | Extraction Batch# | Initial Volume (mL) | Final Volume (mL) | Comments |
|--------------|-------------------|---------------------|-------------------|----------|
| M8 QC275-837 | 96630             | 1.0                 | 1.0               |          |
| MS QC272-838 |                   |                     |                   |          |
| MS           |                   |                     |                   |          |
| MSD          |                   |                     |                   |          |
| 176064-019   |                   |                     |                   |          |
| -020         |                   |                     |                   |          |
| -021         |                   |                     |                   |          |
| -022         |                   |                     |                   |          |
| -023         |                   |                     |                   |          |
| -024         |                   |                     |                   |          |
| -025         |                   |                     |                   | MSS      |
| -026         |                   |                     |                   |          |
| -027         |                   |                     |                   |          |
| 176065-001   |                   |                     |                   |          |
| -002         |                   |                     |                   |          |
| -003         |                   |                     |                   |          |
| 176085-001   |                   |                     |                   |          |
| 176102-021   |                   |                     |                   |          |
| -022         |                   |                     |                   |          |
| 176111-005   |                   |                     |                   |          |
| 33 11/18/04  |                   |                     |                   |          |

☒ Extracts were cleaned up using Florisil cartridges  
 Florisil cartridges/ columns rinsed 3x with Hexane  
 Extracts were eluted with 9.0mL 9:1 Hexane/Acetone

Concentrated to volumes as noted above

| Mfg & Lot # / Time / Program | Initials / Date |
|------------------------------|-----------------|
| PREP 30322HAZ                | P.B. 11/18/04   |
| CM 222                       |                 |
| EM 44233                     |                 |

223 11/18/04  
 Extraction Chemist / Date

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Janie Mee 11/19/04  
 Reviewed by / Date

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Continued on page

Jenimah Allen 11/20/04



| SAMPLE In  | WEIGHT (g) | ANALYSIS | COMMENTS           |
|------------|------------|----------|--------------------|
| 176064-019 | 14.96      | 8081     | 3, COMP 1A, 3A, 5A |
| -020       | 15.04      |          | 2A, 9A, 10A        |
| -021       | 15.22      |          | 7A, 9A, 11A        |
| -022       | 15.05      |          | 8A, 10A, 12A       |
| -023       | 15.05      |          | 13A, 14A, 15A      |
| -024       | 14.99      |          | 16A, 17A, 18A      |
| -025       | 15.20      |          | ↓ 13A, 14A, 15A    |
| ✓ -026     | 15.14      |          | COMP 10A, 11A, 12A |
| MS         | 14.91      |          | 176064-026         |
| MSD        | 14.94      |          | ↓                  |
| LCS        | 14.98      |          | EM44028421         |
| MB         | 15.11      |          | ↓                  |
| 176064-027 | 15.00      | 8081     | COMP 13A-15A       |
| 176085-001 | 30.20      | 8100     | 7, COMP A-D        |
| 176079-003 |            | 8310     |                    |
| -004       |            |          |                    |
| -031       |            |          |                    |
| ✓ -032     |            |          |                    |
| MS         |            |          |                    |
| MSD        |            |          |                    |
| 176085-001 | 15.18      | 8081     | 7, COMP A-D        |
| ✓ -001     | 14.90      | PCB      |                    |
| ✓ -001     | 30.08      | TEHM     |                    |
| 176086-001 | 50.37      | TEHM     | 2, COMP A-B        |
| ✓ -002     | 50.26      |          |                    |
| ✓ -003     | 50.11      |          |                    |
| ✓ -004     | 50.30      |          |                    |

Continued on Page

Michelle Cinto

11/17/04 39

Read and Understood By:

Signed

Date

Signed

Date

| SAMPLE ID     | WEIGHT (g) | ANALYSIS | COMMENTS         |
|---------------|------------|----------|------------------|
| 176079-031 A  | 50.05      | TEHM     | NSS              |
| ↓ -034 ↓      | 50.03      | ↓        | NSS              |
| MS            | 49.95      | ↓        | 176079-031A      |
| MSD           | 50.11      | ↓        | ↓                |
| LC5           | 50.15      | ↓        | EM4402842J       |
| MB            | 49.92      | ↓        | ↓                |
| LC5           | 50.20      | ↓        | ↓                |
| MB            | 49.92      | ↓        | ↓                |
| 176079-013 A  | 14.87      | PCB      |                  |
| ↓ -014 ↓      | 15.22      | ↓        |                  |
| ↓ -012 ↓      | 14.89      | ↓        |                  |
| MS            | 49.94      | TEHM     | 176079-031A      |
| MSD           | 50.32      | ↓        | ↓                |
| 176105-001 A  | 30.49      | 8100     |                  |
| 176089-013 B  | 17.87      | 8210     |                  |
| 176065-001 A  | 14.93      | 8081     |                  |
| ↓ -002 ↓      | 15.13      | ↓        |                  |
| ↓ -003 ↓      | 14.98      | ↓        |                  |
| 176098-001 A  | 14.05      | PCB      | urea, M: Miscell |
| ↓ -002 ↓      | 14.84      | ↓        | ↓                |
| 1760102-021 A | 15.03      | PCB      |                  |
| ↓ -002 ↓      | 15.18      | ↓        |                  |
| 176102-021 A  | 15.08      | 8081     |                  |
| ↓ -022 ↓      | 15.09      | ↓        |                  |

Continued on Page

Michelle Curtis  
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11/17/04  
Date

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Date





Curtis & Tompkins Laboratories  
MDL Summary for EPA 8081A Soil 3545

| Analyte               | Units | GC14B A       | GC14B B       | GC16 A        | GC16 B        | GC21 A        | GC21 B        | GC23 A        | GC23 B        |
|-----------------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| gamma-BHC             | ug/Kg | 05/08/03 0.64 | 05/08/03 0.48 | 04/08/04 0.33 | 04/08/04 0.36 | 04/28/04 0.30 | 04/28/04 0.65 | 06/22/04 0.53 | 06/22/04 0.59 |
| Heptachlor            | ug/Kg | 05/08/03 0.76 | 05/08/03 0.67 | 04/08/04 0.49 | 04/08/04 0.49 | 04/28/04 0.30 | 04/28/04 0.64 | 06/22/04 0.68 | 06/22/04 0.53 |
| Aldrin                | ug/Kg | 05/08/03 0.56 | 05/08/03 0.60 | 04/08/04 0.94 | 04/08/04 0.41 | 04/28/04 0.70 | 04/28/04 0.74 | 06/22/04 0.56 | 06/22/04 0.58 |
| Dieldrin              | ug/Kg | 05/08/03 0.57 | 05/08/03 0.51 | 04/08/04 0.51 | 04/08/04 0.64 | 04/28/04 0.67 | 04/28/04 0.75 | 06/22/04 1.3  | 06/22/04 1.5  |
| Endrin                | ug/Kg | 05/08/03 0.65 | 05/08/03 0.54 | 04/08/04 0.65 | 04/08/04 0.67 | 04/28/04 0.74 | 04/28/04 0.68 | 06/22/04 1.7  | 06/22/04 1.6  |
| 4,4'-DDT              | ug/Kg | 05/08/03 1.2  | 05/08/03 0.74 | 04/08/04 1.8  | 04/08/04 1.2  | 04/28/04 1.8  | 04/28/04 0.58 | 06/22/04 1.6  | 06/22/04 1.7  |
| alpha-BHC             | ug/Kg | 05/08/03 0.55 | 05/08/03 0.56 | 04/08/04 0.43 | 04/08/04 0.33 | 04/28/04 0.37 | 04/28/04 0.65 | 06/22/04 0.52 | 06/22/04 0.59 |
| beta-BHC              | ug/Kg | 05/08/03 0.74 | 05/08/03 0.60 | 04/08/04 0.43 | 04/08/04 0.41 | 04/28/04 0.42 | 04/28/04 0.65 | 06/22/04 0.71 | 06/22/04 0.53 |
| delta-BHC             | ug/Kg | 05/08/03 0.59 | 05/08/03 0.61 | 04/08/04 0.54 | 04/08/04 0.34 | 04/28/04 0.53 | 04/28/04 1.2  | 06/22/04 0.61 | 06/22/04 0.62 |
| Heptachlor epoxide    | ug/Kg | 05/08/03 0.60 | 05/08/03 0.62 | 04/08/04 0.38 | 04/08/04 0.50 | 04/28/04 0.73 | 04/28/04 0.80 | 06/22/04 0.55 | 06/22/04 0.65 |
| gamma-Chlordane       | ug/Kg | 05/08/03 0.57 | 05/08/03 0.55 | 04/08/04 0.55 | 04/08/04 0.47 | 04/28/04 0.78 | 04/28/04 0.63 | 06/22/04 0.57 | 06/22/04 0.72 |
| alpha-Chlordane       | ug/Kg | 05/08/03 0.61 | 05/08/03 0.57 | 04/08/04 0.50 | 04/08/04 0.50 | 04/28/04 0.71 | 04/28/04 0.55 | 06/22/04 0.64 | 06/22/04 0.72 |
| Endosulfan I          | ug/Kg | 05/08/03 0.50 | 05/08/03 0.55 | 04/08/04 0.86 | 04/08/04 0.89 | 04/28/04 1.4  | 04/28/04 1.2  | 06/22/04 0.78 | 06/22/04 0.76 |
| 4,4'-DDE              | ug/Kg | 05/08/03 0.54 | 05/08/03 0.50 | 04/08/04 0.53 | 04/08/04 0.53 | 04/28/04 0.86 | 04/28/04 0.72 | 06/22/04 1.2  | 06/22/04 1.6  |
| Endosulfan II         | ug/Kg | 05/08/03 0.67 | 05/08/03 0.62 | 04/08/04 0.96 | 04/08/04 0.96 | 04/28/04 1.5  | 04/28/04 1.4  | 06/22/04 1.3  | 06/22/04 1.6  |
| Endosulfan sulfate    | ug/Kg | 05/08/03 0.68 | 05/08/03 0.66 | 04/08/04 1.3  | 04/08/04 0.78 | 04/28/04 1.2  | 04/28/04 0.69 | 06/22/04 1.3  | 06/22/04 1.7  |
| 4,4'-DDD              | ug/Kg | 05/08/03 0.66 | 05/08/03 0.63 | 04/08/04 0.62 | 04/08/04 0.68 | 04/28/04 0.72 | 04/28/04 0.71 | 06/22/04 1.4  | 06/22/04 1.5  |
| Endrin aldehyde       | ug/Kg | 05/08/03 0.50 | 05/08/03 0.56 | 04/08/04 0.63 | 04/08/04 0.73 | 04/28/04 0.87 | 04/28/04 0.79 | 06/22/04 1.6  | 06/22/04 1.8  |
| Endrin ketone         | ug/Kg | 05/08/03 0.83 | 05/08/03 0.65 | 04/08/04 1.6  | 04/08/04 0.82 | 04/28/04 1.2  | 04/28/04 0.79 | 06/22/04 1.3  | 06/22/04 1.6  |
| Chlordane (Technical) | ug/Kg | 04/17/04 15   | 04/17/04 13   | 04/09/04 4.8  | 04/09/04 3.8  | 04/30/04 6.1  | 04/30/04 6.2  | 06/23/04 3.1  | 06/23/04 5.0  |
| Methoxychlor          | ug/Kg | 05/08/03 1.1  | 05/08/03 3.1  | 04/08/04 1.2  | 04/08/04 2.7  | 04/28/04 4.2  | 04/28/04 1.6  | 06/22/04 7.9  | 06/22/04 9.8  |
| Toxaphene             | ug/Kg | 04/17/04 25   | 04/17/04 18   | 04/10/04 29   | 04/10/04 12   | 04/30/04 36   | 04/30/04 15   | 06/30/04 11   | 06/30/04 12   |

## **PCBs**

| Polychlorinated Biphenyls (PCBs) |                   |           |                        |
|----------------------------------|-------------------|-----------|------------------------|
| Lab #:                           | 176111            | Location: | Presidio Baker Beach 3 |
| Client:                          | Treadwell & Rollo | Prep:     | EPA 3545               |
| Project#:                        | 2893.12           | Analysis: | EPA 8082               |
| Field ID:                        | BB3 COMP          | Batch#:   | 96627                  |
| Matrix:                          | Soil              | Sampled:  | 11/17/04               |
| Units:                           | ug/Kg             | Received: | 11/17/04               |
| Diln Fac:                        | 1.000             | Prepared: | 11/18/04               |

Type: SAMPLE                      Moisture: 8%  
 Lab ID: 176111-005              Analyzed: 11/19/04  
 Basis: dry                          Cleanup Method: EPA 3630C

| Analyte      | Result | RL |
|--------------|--------|----|
| Aroclor-1016 | ND     | 10 |
| Aroclor-1221 | ND     | 21 |
| Aroclor-1232 | ND     | 10 |
| Aroclor-1242 | ND     | 10 |
| Aroclor-1248 | ND     | 10 |
| Aroclor-1254 | ND     | 10 |
| Aroclor-1260 | ND     | 10 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 119  | 65-135 |
| Decachlorobiphenyl | 123  | 65-135 |

Type: BLANK                      Analyzed: 11/18/04  
 Lab ID: QC272823              Cleanup Method: EPA 3630C  
 Basis: as received

| Analyte      | Result | RL  |
|--------------|--------|-----|
| Aroclor-1016 | ND     | 9.6 |
| Aroclor-1221 | ND     | 19  |
| Aroclor-1232 | ND     | 9.6 |
| Aroclor-1242 | ND     | 9.6 |
| Aroclor-1248 | ND     | 9.6 |
| Aroclor-1254 | ND     | 9.6 |
| Aroclor-1260 | ND     | 9.6 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 118  | 65-135 |
| Decachlorobiphenyl | 122  | 65-135 |

Batch QC Report

| Polychlorinated Biphenyls (PCBs) |                   |           |                        |
|----------------------------------|-------------------|-----------|------------------------|
| Lab #:                           | 176111            | Location: | Presidio Baker Beach 3 |
| Client:                          | Treadwell & Rollo | Prep:     | EPA 3545               |
| Project#:                        | 2893.12           | Analysis: | EPA 8082               |
| Type:                            | LCS               | Diln Fac: | 1.000                  |
| Lab ID:                          | QC272824          | Batch#:   | 96627                  |
| Matrix:                          | Soil              | Prepared: | 11/18/04               |
| Units:                           | ug/Kg             | Analyzed: | 11/18/04               |
| Basis:                           | as received       |           |                        |

Cleanup Method: EPA 3630C

| Analyte      | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Aroclor-1254 | 165.9  | 174.5  | 105  | 65-135 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 112  | 65-135 |
| Decachlorobiphenyl | 116  | 65-135 |





## Batch QC Report

| Polychlorinated Biphenyls (PCBs) |                   |           |                        |
|----------------------------------|-------------------|-----------|------------------------|
| Lab #:                           | 176111            | Location: | Presidio Baker Beach 3 |
| Client:                          | Treadwell & Rollo | Prep:     | EPA 3545               |
| Project#:                        | 2893.12           | Analysis: | EPA 8082               |
| Field ID:                        | ZZZZZZZZZZ        | Batch#:   | 96627                  |
| MSS Lab ID:                      | 176011-002        | Sampled:  | 11/12/04               |
| Matrix:                          | Soil              | Received: | 11/12/04               |
| Units:                           | ug/Kg             | Prepared: | 11/18/04               |
| Basis:                           | dry               | Analyzed: | 11/19/04               |
| Diln Fac:                        | 4.000             |           |                        |

Type: MS  
Lab ID: QC272825

Moisture: 6%  
Cleanup Method: EPA 3630C

| Analyte      | MSS Result | Spiked | Result | %REC  | Limits |
|--------------|------------|--------|--------|-------|--------|
| Aroclor-1254 | <19.15     | 174.6  | 448.3  | 257 * | 65-135 |

| Surrogate          | %REC  | Limits |
|--------------------|-------|--------|
| TCMX               | 148 * | 65-135 |
| Decachlorobiphenyl | 164 * | 65-135 |

Type: MSD  
Lab ID: OC272826

Moisture: 6%  
Cleanup Method: EPA 3630C

| Analyte      | Spiked | Result | %REC  | Limits | RPD | Lim |
|--------------|--------|--------|-------|--------|-----|-----|
| Aroclor-1254 | 177.5  | 392.9  | 221 * | 65-135 | 15  | 35  |

| Surrogate          | %REC  | Limits |
|--------------------|-------|--------|
| TCMX               | 142 * | 65-135 |
| Decachlorobiphenyl | 157 * | 65-135 |

\*= Value outside of QC limits; see narrative  
RPD= Relative Percent Difference  
Page 1 of 1

# INITIAL CALIBRATION REPORT FOR 176111 PCB Soil Curtis & Tompkins Laboratories

Instrument: GC06      Gas Chromatograph #6 ECD      Reviewed By: MCH  
 Calnum: 204456284001      Name:      Type: (normal)      Date: 11-NOV-2004 20:44 Inj Vol (uL): 1

## Calibration levels:

| # | Filename | Segment      | Sample     | Standard                   |
|---|----------|--------------|------------|----------------------------|
| 1 | 316_009  | 204456284009 | pcb10_2    | 11-NOV-2004 20:44 04WS1786 |
| 2 | 316_010  | 204456284010 | pcb25_5    | 11-NOV-2004 21:18 04WS1787 |
| 3 | 316_011  | 204456284011 | pcb100_20  | 11-NOV-2004 21:51 04WS1788 |
| 4 | 316_012  | 204456284012 | pcb250_50  | 11-NOV-2004 22:24 04WS1789 |
| 5 | 316_013  | 204456284013 | pcb500_100 | 11-NOV-2004 22:57 04WS1790 |
| 6 | 316_014  | 204456284014 | pcb750_150 | 11-NOV-2004 23:30 04WS1791 |
| 7 | 316_015  | 204456284015 | pcb1k_200  | 12-NOV-2004 00:04 04WS1792 |

| Analyte               | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type | X | a0 | a1       | a2 | units | avg    | r <sup>2</sup> | MR <sup>2</sup> | Flags |
|-----------------------|----|--------|--------|--------|--------|--------|--------|--------|------|---|----|----------|----|-------|--------|----------------|-----------------|-------|
| Aroclor-1016 Peak # 1 | A  | 261.48 | 241.89 | 254.35 | 221.65 | 239.37 | 241.18 | 224.28 | AVRG | R |    | 0.004156 |    | pg    | 240.60 | 6              | .99             | 20    |
| Aroclor-1016 Peak # 2 | A  | 533.49 | 499.25 | 525.72 | 415.19 | 433.65 | 428.19 | 393.83 | AVRG | R |    | 0.002168 |    | pg    | 461.33 | 12             | .99             | 20    |
| Aroclor-1016 Peak # 3 | A  | 564.73 | 533.69 | 549.22 | 458.79 | 502.50 | 495.49 | 465.89 | AVRG | R |    | 0.001961 |    | pg    | 510.05 | 8              | .99             | 20    |
| Aroclor-1016 Peak # 4 | A  | 242.53 | 237.94 | 243.00 | 205.66 | 232.89 | 231.63 | 220.30 | AVRG | R |    | 0.004337 |    | pg    | 230.56 | 6              | .99             | 20    |
| Aroclor-1016 Peak # 5 | A  | 103.40 | 209.91 | 187.31 | 156.99 | 172.29 | 171.77 | 160.49 | AVRG | R |    | 0.006023 |    | pg    | 166.02 | 20             | .99             | 20    |
| Aroclor-1260 Peak # 1 | A  | 268.40 | 246.51 | 258.02 | 213.38 | 233.79 | 224.81 | 212.27 | AVRG | R |    | 0.004224 |    | pg    | 236.74 | 9              | .99             | 20    |
| Aroclor-1260 Peak # 2 | A  | 376.99 | 357.86 | 338.29 | 277.22 | 313.06 | 301.86 | 290.13 | AVRG | R |    | 0.003104 |    | pg    | 322.20 | 11             | .99             | 20    |
| Aroclor-1260 Peak # 3 | A  | 420.08 | 413.71 | 429.64 | 344.80 | 377.40 | 351.04 | 334.25 | AVRG | R |    | 0.002621 |    | pg    | 381.56 | 10             | .99             | 20    |
| Aroclor-1260 Peak # 4 | A  | 599.44 | 404.88 | 489.66 | 374.38 | 418.02 | 388.99 | 373.66 | AVRG | R |    | 0.002296 |    | pg    | 435.58 | 19             | .99             | 20    |
| Aroclor-1260 Peak # 5 | A  | 1155.8 | 1092.0 | 994.64 | 771.29 | 859.63 | 789.20 | 759.96 | AVRG | R |    | 0.001090 |    | pg    | 917.50 | 18             | .99             | 20    |
| TCMX                  | A  | 13516  | 12108  | 11529  | 9793.1 | 10589  | 10651  | 10004  | AVRG | R |    | 8.953E-5 |    | pg    | 11170  | 12             | .99             | 20    |
| Decachlorobiphenyl    | A  |        |        | 10187  | 7756.8 | 8364.6 | 7334.6 | 7076.3 | AVRG | R |    | 1.228E-4 |    | pg    | 8143.9 | 15             | .99             | 20    |
| Aroclor-1016 Peak # 1 | B  | 473.52 | 445.14 | 452.81 | 426.78 | 418.49 | 427.42 | 380.14 | AVRG | R |    | 0.002315 |    | pg    | 432.04 | 7              | .99             | 20    |
| Aroclor-1016 Peak # 2 | B  | 766.85 | 669.70 | 630.16 | 534.47 | 533.49 | 527.36 | 472.92 | AVRG | R |    | 0.001693 |    | pg    | 590.71 | 17             | .99             | 20    |
| Aroclor-1016 Peak # 3 | B  | 1878.2 | 1673.6 | 1602.8 | 1404.9 | 1429.9 | 1391.1 | 1277.9 | AVRG | R |    | 6.568E-4 |    | pg    | 1522.6 | 14             | .99             | 20    |
| Aroclor-1016 Peak # 4 | B  | 398.83 | 380.82 | 383.28 | 439.40 | 459.90 | 455.53 | 423.28 | AVRG | R |    | 0.002380 |    | pg    | 420.15 | 8              | .99             | 20    |
| Aroclor-1016 Peak # 5 | B  | 572.52 | 549.99 | 549.41 | 458.42 | 469.07 | 454.38 | 417.50 | AVRG | R |    | 0.002017 |    | pg    | 495.90 | 12             | .99             | 20    |
| Aroclor-1260 Peak # 1 | B  | 1235.0 | 1244.3 | 1097.3 | 884.25 | 905.35 | 831.63 | 797.70 | AVRG | R |    | 0.001001 |    | pg    | 999.37 | 19             | .99             | 20    |
| Aroclor-1260 Peak # 2 | B  | 1402.9 | 1421.5 | 1383.1 | 1155.0 | 1218.0 | 1080.6 | 1062.5 | AVRG | R |    | 8.024E-4 |    | pg    | 1246.2 | 12             | .99             | 20    |

Curves:      AVRG: Average response factor  
 Instrument amount = a0 + response \* a1 + response<sup>2</sup> \* a2  
 Page 1 of 2

# INITIAL CALIBRATION REPORT FOR 176111 PCB Soil Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH  
Calnum: 204456284001 Name: Type: (normal) Date: 11-NOV-2004 20:44 Inj Vol (uL): 1

| Analyte               | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type | X | a0 | a1       | a2 | units | avg    | RSD | MuR^2 | MuRSD | Flags |
|-----------------------|----|--------|--------|--------|--------|--------|--------|--------|------|---|----|----------|----|-------|--------|-----|-------|-------|-------|
| Aroclor-1260 Peak # 3 | B  | 800.72 | 867.86 | 708.74 | 580.23 | 600.39 | 543.62 | 536.02 | AVRG | R |    | 0.001509 |    | pg    | 662.51 | 20  | .99   | 20    |       |
| Aroclor-1260 Peak # 4 | B  | 804.18 | 835.16 | 813.93 | 620.14 | 657.60 | 597.79 | 597.96 | AVRG | R |    | 0.001421 |    | pg    | 703.82 | 15  | .99   | 20    |       |
| Aroclor-1260 Peak # 5 | B  | 1856.5 | 1777.6 | 1580.0 | 1233.9 | 1312.1 | 1184.5 | 1158.3 | AVRG | R |    | 6.929E-4 |    | pg    | 1443.3 | 20  | .99   | 20    |       |
| TCMX                  | B  | 26232  | 23416  | 20877  | 17308  | 17565  | 17236  | 15914  | AVRG | R |    | 5.052E-5 |    | pg    | 19793  | 19  | .99   | 20    |       |
| Decachlorobiphenyl    | B  |        |        | 12404  | 9082.8 | 9422.3 | 8255.5 | 7950.1 | AVRG | R |    | 1.061E-4 |    | pg    | 9422.9 | 19  | .99   | 20    |       |

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176111 PCB Soil  
Curtis & Tompkins Laboratories

Instid : GC06 Calname :  
Calnum : 204456284001 Caldate : 11-NOV-2004 Caltype :

ICV 204456284020 (316\_020) standards: 04WS2171

| Analyte            | Ch | ICV          | Seqnum | Date        | Spiked | Quant  | Units | %D | Max |
|--------------------|----|--------------|--------|-------------|--------|--------|-------|----|-----|
| Aroclor-1016       | A  | 204456284020 |        | 12-NOV-2004 | 250.00 | 281.00 | pg    | 12 | 15  |
| Aroclor-1260       | A  | 204456284020 |        | 12-NOV-2004 | 250.00 | 259.47 | pg    | 4  | 15  |
| TCMX               | A  | 204456284020 |        | 12-NOV-2004 | 50.000 | 51.330 | pg    | 3  | 15  |
| Decachlorobiphenyl | A  | 204456284020 |        | 12-NOV-2004 | 50.000 | 59.959 | pg    | 20 | 15  |
| Aroclor-1016       | B  | 204456284020 |        | 12-NOV-2004 | 250.00 | 260.55 | pg    | 4  | 15  |
| Aroclor-1260       | B  | 204456284020 |        | 12-NOV-2004 | 250.00 | 256.62 | pg    | 3  | 15  |
| TCMX               | B  | 204456284020 |        | 12-NOV-2004 | 50.000 | 47.058 | pg    | -6 | 15  |
| Decachlorobiphenyl | B  | 204456284020 |        | 12-NOV-2004 | 50.000 | 58.172 | pg    | 16 | 15  |

# INITIAL CALIBRATION REPORT FOR 176111 PCB Soil Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH  
 Calnum: 204461493001 Name: Type: (normal) Date: 15-NOV-2004 12:43 Inj Vol (uL): 1

Calibration levels:

# Filename Segnum Samplenum Analyzed Standards  
 1 320\_004 204461493004 ar1254 15-NOV-2004 12:43 04WS2184

| Analyte               | Ch | L1     | Type | X | a0 | a1       | a2 | units | avg    | $r^2$ | %RSD | MnR <sup>2</sup> | Flags |
|-----------------------|----|--------|------|---|----|----------|----|-------|--------|-------|------|------------------|-------|
| Aroclor-1254 Peak # 1 | A  | 361.99 | AVRG | R |    | 0.002762 |    | pg    | 361.99 | 0     | .99  | .99              | 20    |
| Aroclor-1254 Peak # 2 | A  | 656.87 | AVRG | R |    | 0.001522 |    | pg    | 656.87 | 0     | .99  | .99              | 20    |
| Aroclor-1254 Peak # 3 | A  | 392.50 | AVRG | R |    | 0.002548 |    | pg    | 392.50 | 0     | .99  | .99              | 20    |
| Aroclor-1254 Peak # 4 | A  | 458.04 | AVRG | R |    | 0.002183 |    | pg    | 458.04 | 0     | .99  | .99              | 20    |
| Aroclor-1254 Peak # 5 | A  | 471.56 | AVRG | R |    | 0.002121 |    | pg    | 471.56 | 0     | .99  | .99              | 20    |
| Aroclor-1254 Peak # 1 | B  | 822.63 | AVRG | R |    | 0.001216 |    | pg    | 822.63 | 0     | .99  | .99              | 20    |
| Aroclor-1254 Peak # 2 | B  | 1102.5 | AVRG | R |    | 9.071E-4 |    | pg    | 1102.5 | 0     | .99  | .99              | 20    |
| Aroclor-1254 Peak # 3 | B  | 715.23 | AVRG | R |    | 0.001398 |    | pg    | 715.23 | 0     | .99  | .99              | 20    |
| Aroclor-1254 Peak # 4 | B  | 1244.6 | AVRG | R |    | 8.034E-4 |    | pg    | 1244.6 | 0     | .99  | .99              | 20    |
| Aroclor-1254 Peak # 5 | B  | 279.17 | AVRG | R |    | 0.003582 |    | pg    | 279.17 | 0     | .99  | .99              | 20    |

CONTINUING CALIBRATION SUMMARY FOR 176111 PCB Soil  
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       | SpkAmt | QntAmt | Units | %D Max | %D Flags |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|--------|----------|
|        |    |              |                   |              |             | RF/CF | RF/CF |        |        |       |        |          |
| GC06   | A  | 204462984046 | 17-NOV-2004 18:51 | 204456284001 | 11-NOV-2004 |       |       | 500.00 | 498.70 | pg    | 0      | 15       |
| GC06   | B  | 204462984046 | 17-NOV-2004 18:51 | 204456284001 | 11-NOV-2004 |       |       | 500.00 | 510.86 | pg    | 2      | 15       |
| GC06   | A  | 204462984063 | 19-NOV-2004 01:54 | 204456284001 | 11-NOV-2004 |       |       | 250.00 | 233.17 | pg    | -7     | 15       |
| GC06   | B  | 204462984063 | 19-NOV-2004 01:54 | 204456284001 | 11-NOV-2004 |       |       | 250.00 | 254.24 | pg    | 2      | 15       |
| GC06   | A  | 204467216001 | 19-NOV-2004 10:56 | 204456284001 | 11-NOV-2004 |       |       | 250.00 | 229.38 | pg    | -8     | 15       |
| GC06   | B  | 204467216001 | 19-NOV-2004 10:56 | 204456284001 | 11-NOV-2004 |       |       | 250.00 | 235.55 | pg    | -6     | 15       |
| GC06   | A  | 204467216012 | 19-NOV-2004 17:43 | 204456284001 | 11-NOV-2004 |       |       | 500.00 | 537.76 | pg    | 8      | 15       |
| GC06   | B  | 204467216012 | 19-NOV-2004 17:43 | 204456284001 | 11-NOV-2004 |       |       | 500.00 | 554.16 | pg    | 11     | 15       |



CONTINUING CALIBRATION SUMMARY FOR 176111 PCB Soil  
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       | SpkAmt | OntAmt | Units | #D Max | #D Flags |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|--------|----------|
|        |    |              |                   |              |             | RF/CF | RF/CF |        |        |       |        |          |
| GC06   | A  | 204462984048 | 17-NOV-2004 19:57 | 204461493001 | 15-NOV-2004 |       |       | 250.00 | 235.46 | pg    | -6     | 15       |
| GC06   | B  | 204462984048 | 17-NOV-2004 19:57 | 204461493001 | 15-NOV-2004 |       |       | 250.00 | 246.16 | pg    | -2     | 15       |
| GC06   | A  | 204462984065 | 19-NOV-2004 03:01 | 204461493001 | 15-NOV-2004 |       |       | 250.00 | 253.40 | pg    | 1      | 15       |
| GC06   | B  | 204462984065 | 19-NOV-2004 03:01 | 204461493001 | 15-NOV-2004 |       |       | 250.00 | 251.51 | pg    | 1      | 15       |
| GC06   | A  | 204467216002 | 19-NOV-2004 11:47 | 204461493001 | 15-NOV-2004 |       |       | 250.00 | 253.96 | pg    | 2      | 15       |
| GC06   | B  | 204467216002 | 19-NOV-2004 11:47 | 204461493001 | 15-NOV-2004 |       |       | 250.00 | 250.63 | pg    | 0      | 15       |
| GC06   | A  | 204467216014 | 19-NOV-2004 18:50 | 204461493001 | 15-NOV-2004 |       |       | 250.00 | 272.03 | pg    | 9      | 15       |
| GC06   | B  | 204467216014 | 19-NOV-2004 18:50 | 204461493001 | 15-NOV-2004 |       |       | 250.00 | 271.37 | pg    | 9      | 15       |

CONTINUING CALIBRATION SUMMARY FOR 176111 PCB Soil  
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       | SpkAmt | QntAmt | Units | %D Max | %D Flags |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|--------|----------|
|        |    |              |                   |              |             | RF/CF | RF/CF |        |        |       |        |          |
| GC06   | A  | 204462984046 | 17-NOV-2004 18:51 | 204456284001 | 11-NOV-2004 |       |       | 500.00 | 476.47 | pg    | -5     | 15       |
| GC06   | B  | 204462984046 | 17-NOV-2004 18:51 | 204456284001 | 11-NOV-2004 |       |       | 500.00 | 501.53 | pg    | 0      | 15       |
| GC06   | A  | 204462984063 | 19-NOV-2004 01:54 | 204456284001 | 11-NOV-2004 |       |       | 250.00 | 228.55 | pg    | -9     | 15       |
| GC06   | B  | 204462984063 | 19-NOV-2004 01:54 | 204456284001 | 11-NOV-2004 |       |       | 250.00 | 239.38 | pg    | -4     | 15       |
| GC06   | A  | 204467216001 | 19-NOV-2004 10:56 | 204456284001 | 11-NOV-2004 |       |       | 250.00 | 234.86 | pg    | -6     | 15       |
| GC06   | B  | 204467216001 | 19-NOV-2004 10:56 | 204456284001 | 11-NOV-2004 |       |       | 250.00 | 241.34 | pg    | -3     | 15       |
| GC06   | A  | 204467216012 | 19-NOV-2004 17:43 | 204456284001 | 11-NOV-2004 |       |       | 500.00 | 504.02 | pg    | 1      | 15       |
| GC06   | B  | 204467216012 | 19-NOV-2004 17:43 | 204456284001 | 11-NOV-2004 |       |       | 500.00 | 497.87 | pg    | 0      | 15       |

CONTINUING CALIBRATION SUMMARY FOR 176111 PCB Soil  
Curtis & Tompkins Laboratories

Analyte: TCMX

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |        | SpkAmt | QntAmt | Units | %D Max | %D | Flags |
|--------|----|--------------|-------------------|--------------|-------------|-------|--------|--------|--------|-------|--------|----|-------|
|        |    |              |                   |              |             | RF/CF | RF/CF  |        |        |       |        |    |       |
| GC06   | A  | 204462984046 | 17-NOV-2004 18:51 | 204456284001 | 11-NOV-2004 | 11170 | 10387  | 100.00 | 92.995 | pg    | -7     | 15 |       |
| GC06   | B  | 204462984046 | 17-NOV-2004 18:51 | 204456284001 | 11-NOV-2004 | 19793 | 18094  | 100.00 | 91.419 | pg    | -9     | 15 |       |
| GC06   | A  | 204462984063 | 19-NOV-2004 01:54 | 204456284001 | 11-NOV-2004 | 11170 | 9802.2 | 50.000 | 43.878 | pg    | -12    | 15 |       |
| GC06   | B  | 204462984063 | 19-NOV-2004 01:54 | 204456284001 | 11-NOV-2004 | 19793 | 18021  | 50.000 | 45.524 | pg    | -9     | 15 |       |
| GC06   | A  | 204467216001 | 19-NOV-2004 10:56 | 204456284001 | 11-NOV-2004 | 11170 | 9912.9 | 50.000 | 44.373 | pg    | -11    | 15 |       |
| GC06   | B  | 204467216001 | 19-NOV-2004 10:56 | 204456284001 | 11-NOV-2004 | 19793 | 17321  | 50.000 | 43.755 | pg    | -12    | 15 |       |
| GC06   | A  | 204467216012 | 19-NOV-2004 17:43 | 204456284001 | 11-NOV-2004 | 11170 | 11495  | 100.00 | 102.91 | pg    | 3      | 15 |       |
| GC06   | B  | 204467216012 | 19-NOV-2004 17:43 | 204456284001 | 11-NOV-2004 | 19793 | 19863  | 100.00 | 100.35 | pg    | 0      | 15 |       |

CONTINUING CALIBRATION SUMMARY FOR 176111 PCB Soil  
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg    |        | SpkAmt | OntAmt | Units | %D Max | %D Flags |
|--------|----|--------------|-------------------|--------------|-------------|--------|--------|--------|--------|-------|--------|----------|
|        |    |              |                   |              |             | RF/CF  | RF/CF  |        |        |       |        |          |
| GC06   | A  | 204462984046 | 17-NOV-2004 18:51 | 204456284001 | 11-NOV-2004 | 8143.9 | 7480.8 | 100.00 | 91.857 | pg    | -8     | 15       |
| GC06   | B  | 204462984046 | 17-NOV-2004 18:51 | 204456284001 | 11-NOV-2004 | 9422.9 | 9255.3 | 100.00 | 98.221 | pg    | -2     | 15       |
| GC06   | A  | 204462984063 | 19-NOV-2004 01:54 | 204456284001 | 11-NOV-2004 | 8143.9 | 7601.4 | 50.000 | 46.669 | pg    | -7     | 15       |
| GC06   | B  | 204462984063 | 19-NOV-2004 01:54 | 204456284001 | 11-NOV-2004 | 9422.9 | 9081.4 | 50.000 | 48.188 | pg    | -4     | 15       |
| GC06   | A  | 204467216001 | 19-NOV-2004 10:56 | 204456284001 | 11-NOV-2004 | 8143.9 | 8048.3 | 50.000 | 49.413 | pg    | -1     | 15       |
| GC06   | B  | 204467216001 | 19-NOV-2004 10:56 | 204456284001 | 11-NOV-2004 | 9422.9 | 9461.5 | 50.000 | 50.205 | pg    | 0      | 15       |
| GC06   | A  | 204467216012 | 19-NOV-2004 17:43 | 204456284001 | 11-NOV-2004 | 8143.9 | 7860.1 | 100.00 | 96.516 | pg    | -3     | 15       |
| GC06   | B  | 204467216012 | 19-NOV-2004 17:43 | 204456284001 | 11-NOV-2004 | 9422.9 | 9270.3 | 100.00 | 98.382 | pg    | -2     | 15       |

# SEQUENCE SUMMARY FOR 176111 PCB Soil Curtis & Tompkins Laboratories

Sequence: 204456284 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 11-NOV-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type | Samplenum  | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Stdts | Used | >LR |
|-----|----------|------|------------|-------|--------|-------------|-------|-----|-----|----|----|----|-------|------|-----|
| 008 | 316_008  | X    | hex        |       |        | 11-NOV-2004 | 20:11 | 1.0 |     |    |    |    |       |      |     |
| 009 | 316_009  | ICAL | pcb10_2    |       |        | 11-NOV-2004 | 20:44 | 1.0 |     |    |    |    | 1     |      |     |
| 010 | 316_010  | ICAL | pcb25_5    |       |        | 11-NOV-2004 | 21:18 | 1.0 |     |    |    |    | 2     |      |     |
| 011 | 316_011  | ICAL | pcb100_20  |       |        | 11-NOV-2004 | 21:51 | 1.0 |     |    |    |    | 3     |      |     |
| 012 | 316_012  | ICAL | pcb250_50  |       |        | 11-NOV-2004 | 22:24 | 1.0 |     |    |    |    | 4     |      |     |
| 013 | 316_013  | ICAL | pcb500_100 |       |        | 11-NOV-2004 | 22:57 | 1.0 |     |    |    |    | 5     |      |     |
| 014 | 316_014  | ICAL | pcb750_150 |       |        | 11-NOV-2004 | 23:30 | 1.0 |     |    |    |    | 6     |      |     |
| 015 | 316_015  | ICAL | pcb1k_200  |       |        | 12-NOV-2004 | 00:04 | 1.0 |     |    |    |    | 7     |      |     |
| 017 | 316_017  | X    | hex        |       |        | 12-NOV-2004 | 01:10 | 1.0 |     |    |    |    |       |      |     |
| 018 | 316_018  | X    | icv        |       |        | 12-NOV-2004 | 01:43 | 1.0 |     |    |    |    | 8     |      |     |
| 019 | 316_019  | X    | icv        |       |        | 12-NOV-2004 | 02:17 | 1.0 |     |    |    |    | 8     |      |     |
| 020 | 316_020  | ICV  | accu_1660  |       |        | 12-NOV-2004 | 15:44 | 1.0 |     | 1  |    |    | 9     |      |     |

SEQUENCE SUMMARY FOR 176111 PCB Soil  
Curtis & Tompkins Laboratories

Sequence: 204461493 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 15-NOV-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type | Samplenum | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Std | Used | >LR |
|-----|----------|------|-----------|-------|--------|-------------|-------|-----|-----|----|----|----|-----|------|-----|
| 002 | 320_002  | CCV  | pcb250_50 |       |        | 15-NOV-2004 | 11:33 | 1.0 |     | 1  |    |    | 1   |      |     |
| 003 | 320_003  | X    | ccv       |       |        | 15-NOV-2004 | 12:07 | 1.0 |     |    |    |    | 2   |      |     |
| 004 | 320_004  | CCV  | ar1254    |       |        | 15-NOV-2004 | 12:43 | 1.0 |     | 1  |    |    | 3   |      |     |
| 005 | 320_005  | X    | ccv       |       |        | 15-NOV-2004 | 13:17 | 1.0 |     |    |    |    | 3   |      |     |



SEQUENCE SUMMARY FOR 176111 PCB Soil  
Curtis & Tompkins Laboratories

Sequence: 204462984 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 16-NOV-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type    | Samplenum  | Batch | Matrix | Analyzed    | IDF   | PDF | IOC     | SPK | uL | Stds | Used | >LR |
|-----|----------|---------|------------|-------|--------|-------------|-------|-----|---------|-----|----|------|------|-----|
| 002 | 321_002  | X       | ccv        |       |        | 16-NOV-2004 | 12:24 | 1.0 | 1.0     |     | 1  | 1    |      |     |
| 003 | 321_003  | CCV     | pcb250_50  |       |        | 16-NOV-2004 | 12:57 | 1.0 | 1.0     |     | 1  | 1    |      |     |
| 004 | 321_004  | CCV     | ar1254     |       |        | 16-NOV-2004 | 13:47 | 1.0 | 1.0     |     | 1  | 2    |      |     |
| 005 | 321_005  | X       | ccv        |       |        | 16-NOV-2004 | 14:20 | 1.0 |         |     |    | 2    |      |     |
| 007 | 321_007  | BLANK   | QC272351   | 96512 | Water  | 16-NOV-2004 | 19:08 | 1.0 | 0.025   |     | 1  |      |      |     |
| 008 | 321_008  | BS      | QC272352   | 96512 | Water  | 16-NOV-2004 | 19:41 | 1.0 | 0.025   |     | 1  |      |      |     |
| 009 | 321_009  | BSD     | QC272353   | 96512 | Water  | 16-NOV-2004 | 20:14 | 1.0 | 0.025   |     | 1  |      |      |     |
| 010 | 321_010  | SAMPLE  | 175996-001 | 96512 | Water  | 16-NOV-2004 | 20:48 | 1.0 | 0.02451 |     | 1  |      |      |     |
| 011 | 321_011  | SAMPLE  | 175996-002 | 96512 | Water  | 16-NOV-2004 | 21:21 | 1.0 | 0.02475 |     | 1  |      |      |     |
| 012 | 321_012  | SAMPLE  | 175940-001 | 96512 | Water  | 16-NOV-2004 | 21:54 | 1.0 | 0.02381 |     | 1  |      |      |     |
| 013 | 321_013  | SAMPLE  | 175940-002 | 96512 | Water  | 16-NOV-2004 | 22:28 | 1.0 | 0.02358 |     | 1  |      |      |     |
| 014 | 321_014  | SAMPLE  | 175951-003 | 96512 | Water  | 16-NOV-2004 | 23:01 | 1.0 | 0.02427 |     | 1  |      |      |     |
| 015 | 321_015  | SAMPLE  | 175951-006 | 96512 | Water  | 16-NOV-2004 | 23:34 | 1.0 | 0.02427 |     | 1  |      |      |     |
| 016 | 321_016  | SAMPLE  | 175951-007 | 96512 | Water  | 17-NOV-2004 | 00:08 | 1.0 | 0.02451 |     | 1  |      |      |     |
| 018 | 321_018  | CCV     | pcb500_100 |       |        | 17-NOV-2004 | 01:14 | 1.0 | 1.0     |     | 1  | 3    |      |     |
| 019 | 321_019  | X       | ccv        |       |        | 17-NOV-2004 | 01:47 | 1.0 |         |     |    | 3    |      |     |
| 020 | 321_020  | CCV     | ar1254     |       |        | 17-NOV-2004 | 02:21 | 1.0 | 1.0     |     | 1  | 2    |      |     |
| 021 | 321_021  | X       | ccv        |       |        | 17-NOV-2004 | 02:54 | 1.0 |         |     |    | 2    |      |     |
| 023 | 321_023  | SAMPLE  | 175991-001 | 96512 | Water  | 17-NOV-2004 | 04:00 | 1.0 | 0.02381 |     | 1  |      |      |     |
| 024 | 321_024  | SAMPLE  | 175991-002 | 96512 | Water  | 17-NOV-2004 | 04:34 | 1.0 | 0.02381 |     | 1  |      |      |     |
| 025 | 321_025  | SAMPLE  | 175991-003 | 96512 | Water  | 17-NOV-2004 | 05:07 | 1.0 | 0.02475 |     | 1  |      |      |     |
| 026 | 321_026  | SAMPLE  | 176011-001 | 96527 | Soil   | 17-NOV-2004 | 05:40 | 1.0 | 0.6601  | 4   | 1  |      |      |     |
| 027 | 321_027  | X,SAMPL | 176011-002 | 96527 | Soil   | 17-NOV-2004 | 06:13 | 1.0 |         |     |    |      |      |     |
| 029 | 321_029  | BLANK   | QC272411   | 96527 | Soil   | 17-NOV-2004 | 07:20 | 1.0 | 0.668   |     | 1  |      |      |     |
| 030 | 321_030  | LCS     | QC272412   | 96527 | Soil   | 17-NOV-2004 | 07:53 | 1.0 | 0.6636  |     | 1  |      |      |     |
| 032 | 321_032  | X       | pcb250_50  |       |        | 17-NOV-2004 | 09:00 | 1.0 | 1.0     |     | 1  | 1    |      |     |
| 033 | 321_033  | CCV     | ccv        |       |        | 17-NOV-2004 | 09:33 | 1.0 | 1.0     |     | 1  | 1    |      |     |
| 034 | 321_034  | X       | ar1254     |       |        | 17-NOV-2004 | 10:06 | 1.0 |         |     |    | 2    |      |     |
| 035 | 321_035  | CCV     | ccv        |       |        | 17-NOV-2004 | 10:39 | 1.0 | 1.0     |     | 1  | 2    |      |     |
| 037 | 321_037  | X,BLANK | QC272411   | 96527 | Soil   | 17-NOV-2004 | 12:38 | 1.0 |         |     |    |      |      |     |
| 038 | 321_038  | X,LCS   | QC272412   | 96527 | Soil   | 17-NOV-2004 | 13:11 | 1.0 |         |     |    |      |      |     |

stds used: 1=04WS2130 2=04WS2184 3=04WS2064

SEQUENCE SUMMARY FOR 176111 PCB Soil  
Curtis & Tompkins Laboratories

Sequence: 204462984 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 16-NOV-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF   | PDF | IOC    | SPK | uL | Stds | Used | >LR |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|--------|-----|----|------|------|-----|
| 040 | 321_040  | SAMPLE | 176012-001 | 96527 | Soil   | 17-NOV-2004 | 15:31 | 1.0 | 0.6623 | 3   | 1  |      |      |     |
| 041 | 321_041  | SAMPLE | 176011-002 | 96527 | Soil   | 17-NOV-2004 | 16:04 | 4.0 | 0.6649 | 4   | 1  |      |      |     |
| 043 | 321_043  | MS     | QC272413   | 96527 | Soil   | 17-NOV-2004 | 17:11 | 1.0 | 0.6734 |     | 1  |      |      |     |
| 044 | 321_044  | MSD    | QC272414   | 96527 | Soil   | 17-NOV-2004 | 17:44 | 1.0 | 0.6653 |     | 1  |      |      |     |
| 046 | 321_046  | CCV    | pcb500_100 |       |        | 17-NOV-2004 | 18:51 | 1.0 | 1.0    |     | 1  | 3    |      |     |
| 047 | 321_047  | X      | ccv        |       |        | 17-NOV-2004 | 19:24 | 1.0 |        |     |    | 3    |      |     |
| 048 | 321_048  | CCV    | ar1254     |       |        | 17-NOV-2004 | 19:57 | 1.0 | 1.0    |     | 1  | 2    |      |     |
| 049 | 321_049  | X      | ccv        |       |        | 17-NOV-2004 | 20:30 | 1.0 |        |     |    | 2    |      |     |
| 051 | 321_051  | BLANK  | QC272733   | 96608 | Water  | 18-NOV-2004 | 19:15 | 1.0 | 0.025  |     | 1  |      |      |     |
| 052 | 321_052  | BLANK  | QC272823   | 96627 | Soil   | 18-NOV-2004 | 19:48 | 1.0 | 0.668  |     | 1  |      |      |     |
| 053 | 321_053  | BS     | QC272734   | 96608 | Water  | 18-NOV-2004 | 20:21 | 1.0 | 0.025  |     | 1  |      |      |     |
| 054 | 321_054  | BSD    | QC272735   | 96608 | Water  | 18-NOV-2004 | 20:54 | 1.0 | 0.025  |     | 1  |      |      |     |
| 055 | 321_055  | LCS    | QC272824   | 96627 | Soil   | 18-NOV-2004 | 21:28 | 1.0 | 0.6636 |     | 1  |      |      |     |
| 057 | 321_057  | MSS    | 176011-002 | 96627 | Soil   | 18-NOV-2004 | 22:34 | 4.0 | 0.6671 | 1   | 1  |      |      |     |
| 059 | 321_059  | MS     | QC272825   | 96627 | Soil   | 18-NOV-2004 | 23:41 | 4.0 | 0.6566 | 4   | 1  |      |      |     |
| 061 | 321_061  | MSD    | QC272826   | 96627 | Soil   | 19-NOV-2004 | 00:47 | 4.0 | 0.6676 | 6   | 1  |      |      |     |
| 063 | 321_063  | CCV    | pcb250_50  |       |        | 19-NOV-2004 | 01:54 | 1.0 | 1.0    |     | 1  | 1    |      |     |
| 064 | 321_064  | X      | ccv        |       |        | 19-NOV-2004 | 02:27 | 1.0 |        |     |    | 1    |      |     |
| 065 | 321_065  | CCV    | ar1254     |       |        | 19-NOV-2004 | 03:01 | 1.0 | 1.0    |     | 1  | 2    |      |     |
| 066 | 321_066  | X      | ccv        |       |        | 19-NOV-2004 | 03:34 | 1.0 |        |     |    | 2    |      |     |
| 070 | 321_070  | SAMPLE | 176111-005 | 96627 | Soil   | 19-NOV-2004 | 05:47 | 1.0 |        |     |    |      |      |     |
| 072 | 321_072  | CCV    | pcb500_100 |       |        | 19-NOV-2004 | 06:54 | 1.0 |        |     |    | 3    |      |     |
| 073 | 321_073  | X      | ccv        |       |        | 19-NOV-2004 | 07:27 | 1.0 |        |     |    | 3    |      |     |
| 074 | 321_074  | CCV    | ar1254     |       |        | 19-NOV-2004 | 08:01 | 1.0 |        |     |    | 2    |      |     |
| 075 | 321_075  | X      | ccv        |       |        | 19-NOV-2004 | 08:34 | 1.0 |        |     |    | 2    |      |     |

Stds used: 1=04WS2130 2=04WS2184 3=04WS2064

# SEQUENCE SUMMARY FOR 176111 PCB Soil Curtis & Tompkins Laboratories

Sequence: 204467216 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 19-NOV-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type   | Samplenum  | Batch | Matrix | Analyzed    | IDF   | PDF | IOC     | SPK | uL | Stds | Used | >LR              |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|---------|-----|----|------|------|------------------|
| 001 | 324_001  | CCV    | pcb250_50  |       |        | 19-NOV-2004 | 10:56 | 1.0 |         |     | 1  | 1    |      |                  |
| 002 | 324_002  | CCV    | ar1254     |       |        | 19-NOV-2004 | 11:47 | 1.0 |         |     | 1  | 2    |      |                  |
| 004 | 324_004  | SAMPLE | 176101-001 | 96608 | Water  | 19-NOV-2004 | 13:10 | 1.0 | 0.02358 |     | 1  |      |      |                  |
| 005 | 324_005  | SAMPLE | 176101-002 | 96608 | Water  | 19-NOV-2004 | 13:44 | 1.0 | 0.02381 |     | 1  |      |      |                  |
| 006 | 324_006  | SAMPLE | 176111-005 | 96627 | Soil   | 19-NOV-2004 | 14:19 | 1.0 | 0.6596  |     | 1  |      |      |                  |
| 007 | 324_007  | SAMPLE | 176085-001 | 96627 | Soil   | 19-NOV-2004 | 14:52 | 1.0 | 0.6711  |     | 1  |      |      |                  |
| 008 | 324_008  | MS     | QC272825   | 96627 | Soil   | 19-NOV-2004 | 15:25 | 4.0 | 0.6566  | 6   | 1  |      |      |                  |
| 010 | 324_010  | MSD    | QC272826   | 96627 | Soil   | 19-NOV-2004 | 16:37 | 4.0 | 0.6676  | 6   | 1  |      |      |                  |
| 012 | 324_012  | CCV    | pcb500_100 |       |        | 19-NOV-2004 | 17:43 | 1.0 | 1.0     |     | 1  | 3    |      |                  |
| 013 | 324_013  | X      | ccv        |       |        | 19-NOV-2004 | 18:16 | 1.0 |         |     |    | 3    |      |                  |
| 014 | 324_014  | CCV    | ar1254     |       |        | 19-NOV-2004 | 18:50 | 1.0 | 1.0     |     | 1  | 2    |      |                  |
| 015 | 324_015  | X      | ccv        |       |        | 19-NOV-2004 | 19:23 | 1.0 |         |     |    | 2    |      |                  |
| 017 | 324_017  | SAMPLE | 176043-002 | 96608 | Water  | 19-NOV-2004 | 20:29 | 1.0 | 0.02358 | 1   | 1  |      |      | 1:XYL246=514.968 |
| 018 | 324_018  | SAMPLE | 176043-006 | 96608 | Water  | 19-NOV-2004 | 21:03 | 1.0 | 0.02427 |     | 1  |      |      |                  |
| 019 | 324_019  | SAMPLE | 176023-001 | 96627 | Soil   | 19-NOV-2004 | 21:36 | 1.0 | 0.6618  |     | 1  |      |      |                  |
| 020 | 324_020  | SAMPLE | 176079-012 | 96627 | Soil   | 19-NOV-2004 | 22:09 | 1.0 | 0.6725  |     | 1  |      |      |                  |
| 021 | 324_021  | SAMPLE | 176079-013 | 96627 | Soil   | 19-NOV-2004 | 22:42 | 1.0 | 0.657   |     | 1  |      |      |                  |
| 022 | 324_022  | SAMPLE | 176079-014 | 96627 | Soil   | 19-NOV-2004 | 23:16 | 1.0 | 0.6716  |     | 1  |      |      |                  |
| 023 | 324_023  | SAMPLE | 176098-001 | 96627 | Miscel | 19-NOV-2004 | 23:49 | 1.0 | 0.6676  |     | 1  |      |      |                  |
| 024 | 324_024  | SAMPLE | 176098-002 | 96627 | Miscel | 20-NOV-2004 | 00:22 | 1.0 | 0.6739  | 3   | 1  |      |      | 5:PCB101=5645.12 |
| 025 | 324_025  | SAMPLE | 176102-022 | 96627 | Soil   | 20-NOV-2004 | 00:55 | 1.0 | 0.6588  | 5   | 1  |      |      | 7:PCB101=129710  |
| 026 | 324_026  | SAMPLE | 176102-021 | 96627 | Soil   | 20-NOV-2004 | 01:29 | 1.0 | 0.6653  | 3   | 1  |      |      | 5:PCB101=4689.70 |
| 028 | 324_028  | X      | ccv        |       |        | 20-NOV-2004 | 02:35 | 1.0 |         |     |    | 1    |      |                  |
| 029 | 324_029  | CCV    | pcb250_50  |       |        | 20-NOV-2004 | 03:08 | 1.0 | 1.0     |     | 1  | 1    |      |                  |
| 030 | 324_030  | CCV    | ar1254     |       |        | 20-NOV-2004 | 03:42 | 1.0 | 1.0     |     | 1  | 2    |      |                  |
| 031 | 324_031  | X      | ccv        |       |        | 20-NOV-2004 | 04:15 | 1.0 |         |     |    | 2    |      |                  |

Stds used: 1=04WS2130 2=04WS2184 3=04WS2064

## Reporting Summary for 176111 PCB Soil

| Sample ID  | Analyte            | Inst ID | Ch | Date & Time    |
|------------|--------------------|---------|----|----------------|
| 176111-005 | Aroclor-1016       | GC06    | A  | 11/19/04 14:19 |
| 176111-005 | Aroclor-1221       | GC06    | A  | 11/19/04 14:19 |
| 176111-005 | Aroclor-1232       | GC06    | A  | 11/19/04 14:19 |
| 176111-005 | Aroclor-1242       | GC06    | A  | 11/19/04 14:19 |
| 176111-005 | Aroclor-1248       | GC06    | A  | 11/19/04 14:19 |
| 176111-005 | Aroclor-1254       | GC06    | A  | 11/19/04 14:19 |
| 176111-005 | Aroclor-1260       | GC06    | A  | 11/19/04 14:19 |
| 176111-005 | TCMX               | GC06    | A  | 11/19/04 14:19 |
| 176111-005 | Decachlorobiphenyl | GC06    | A  | 11/19/04 14:19 |
| QC272823   | Aroclor-1016       | GC06    | A  | 11/18/04 19:48 |
| QC272823   | Aroclor-1221       | GC06    | A  | 11/18/04 19:48 |
| QC272823   | Aroclor-1232       | GC06    | A  | 11/18/04 19:48 |
| QC272823   | Aroclor-1242       | GC06    | A  | 11/18/04 19:48 |
| QC272823   | Aroclor-1248       | GC06    | A  | 11/18/04 19:48 |
| QC272823   | Aroclor-1254       | GC06    | A  | 11/18/04 19:48 |
| QC272823   | Aroclor-1260       | GC06    | A  | 11/18/04 19:48 |
| QC272823   | TCMX               | GC06    | A  | 11/18/04 19:48 |
| QC272823   | Decachlorobiphenyl | GC06    | A  | 11/18/04 19:48 |
| QC272824   | Aroclor-1254       | GC06    | A  | 11/18/04 21:28 |
| QC272824   | TCMX               | GC06    | A  | 11/18/04 21:28 |
| QC272824   | Decachlorobiphenyl | GC06    | A  | 11/18/04 21:28 |
| QC272825   | Aroclor-1254       | GC06    | A  | 11/19/04 15:25 |
| QC272825   | TCMX               | GC06    | A  | 11/19/04 15:25 |
| QC272825   | Decachlorobiphenyl | GC06    | A  | 11/19/04 15:25 |
| QC272826   | Aroclor-1254       | GC06    | A  | 11/19/04 16:37 |
| QC272826   | TCMX               | GC06    | A  | 11/19/04 16:37 |
| QC272826   | Decachlorobiphenyl | GC06    | A  | 11/19/04 16:37 |

Curtis & Tompkins Laboratories

Sample Preparation Summary

18-NOV-2004 19:38

Batch Number : 96627  
 Date Extracted : 18-NOV-2004  
 Extracted by : Brook N. Buswell  
 Prep Method : 3545  
 Analysis : PCB  
 Bgroup : N/A  
 Units : g  
 Clean-up :  
 Spike #1 ID : 04WS1994B  
 Spike #2 ID : 04WS2065A  
 Spike #3 ID :  
 SOP Version : PCB-ASE rv0

| Sample     | Type | Client                      | Matrix   | Unit W/V | Final Vol | Final D.F. | Clean pH | Sp 1 Vol | Sp 2 Vol | Sp 3 Vol | Analyses | Clean Method | Comments |
|------------|------|-----------------------------|----------|----------|-----------|------------|----------|----------|----------|----------|----------|--------------|----------|
| 176011-002 |      | CH2M Hill Constructors Inc. | Soil     | 14.99 g  | 10        | 0.667111   | 1        | .025     | 0        |          | PCB      | 3630C        | msb      |
| 176023-001 |      | Warren George Inc           | Soil     | 15.11 g  | 10        | 0.661813   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| 176079-012 |      | URS Corporation             | Soil     | 14.87 g  | 10        | 0.672495   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| 176079-013 |      | URS Corporation             | Soil     | 15.22 g  | 10        | 0.657030   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| 176079-014 |      | URS Corporation             | Soil     | 14.89 g  | 10        | 0.671592   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| 176085-001 |      | URS Corporation             | Soil     | 14.9 g   | 10        | 0.671141   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| 176098-001 |      | Warren George Inc           | Miscell. | 14.98 g  | 10        | 0.667557   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| 176098-002 |      | Warren George Inc           | Miscell. | 14.84 g  | 10        | 0.673854   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| 176102-021 |      | Baseline Environmental      | Soil     | 15.03 g  | 10        | 0.665336   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| 176102-022 |      | Baseline Environmental      | Soil     | 15.18 g  | 10        | 0.658762   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| 176111-005 |      | Treadwell & Rollo           | Soil     | 15.16 g  | 10        | 0.659631   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| QC272823   | MB   |                             | Soil     | 14.97 g  | 10        | 0.668003   | 1        | .025     | 0        |          | PCB      | 3630C        |          |
| QC272824   | LCS  |                             | Soil     | 15.07 g  | 10        | 0.663570   | 1        | .025     | .025     |          | PCB      | 3630C        |          |
| QC272825   | MS   |                             | Soil     | 15.23 g  | 10        | 0.656599   | 1        | .025     | .025     |          | PCB      | 3630C        |          |
| QC272826   | MSD  |                             | Soil     | 14.98 g  | 10        | 0.667557   | 1        | .025     | .025     |          | PCB      | 3630C        |          |

of 176011-002  
 of 176011-002

Prep Chemist: SFL for BB Date: 11/18/04  
 Relinquished By: [Signature] Date: 11/18/04  
 Reviewed By: [Signature]  
 Received By: [Signature]

LIMS Batch No: 96627  
 LIMS Analysis: PCB  
 Extracted by: 83  
 Date Extracted: 11/18/04

☐ EPA 3550b Sonication  
☐ EPA 3540c Soxhlet  
☒ EPA 3545 PFE (ASE Method# 10)  
☐ Other \_\_\_\_\_

| Sample ID    | Sample Wt (g) | Final Vol (mL) | Comments   |
|--------------|---------------|----------------|------------|
| MR 2272823   | 14.97         | 10             |            |
| LCS          | 15.07         |                |            |
| MS           | 15.23         |                | 176011-002 |
| MSD          | 14.98         |                | ↓          |
| 176011-002   | 14.99         |                | MSS        |
| 176023-001   | 15.11         |                |            |
| 176079-012   | 14.87         |                |            |
| ↓ -013       | 15.22         |                |            |
| ↓ -014       | 14.89         |                |            |
| 176085-001   | 14.90         |                |            |
| 176098-001   | 14.98         |                |            |
| ↓ -002       | 14.84         |                |            |
| 176102-021   | 15.03         |                |            |
| ↓ -022       | 15.18         |                |            |
| 176111-005   | 15.16         |                |            |
| JTM 11/18/04 |               |                |            |

/Date

6/04

11/04

1

Sand weighed out for QC samples  
 dried with CH<sub>2</sub>Cl<sub>2</sub>-rinsed ☐ granular Na<sub>2</sub>SO<sub>4</sub> ☒ diatomaceous earth

0.025 mL of surrogate solution was added to all samples

0.025 mL of spike solution 1254 was added to all spikes

1 CH<sub>2</sub>Cl<sub>2</sub> (lot# EM44249) Acetone (lot# EM44233) was added to all

☐ sonicated 3 times w/ >100mL ☒ PFE extracted ☐ soxhlet extracted

ASE Cellulose Filters used:

PFE (ASE) / soxhlets on at

PFE (ASE) / soxhlets off at

Extracts filtered through baked, CH<sub>2</sub>Cl<sub>2</sub>-rinsed, granular Na<sub>2</sub>SO<sub>4</sub>

Concentrated to volumes noted above after exchange to Hexane Lot#

EPA 3665A Clean-up: vortexed w/ 10mL H<sub>2</sub>SO<sub>4</sub> Lot#

Centrifuged for 1 min; 10mL transferred to labelled vial

Mfg &amp; Lot# / LIMS # / Time

Initials / Date

|                |              |
|----------------|--------------|
| EM44028421     | 8/11/04      |
| DIONE X 040112 |              |
| DUW51994 B     |              |
| DUW52065 A     |              |
| WHATMAN D28    |              |
| NA             |              |
| ↓              |              |
| CA222          | JTM 11/18/04 |
| JTBA30032      |              |

Continued from page

Continued on page

Reviewed by / Date

Date Extraction Chemist / Date



| SAMPLE ID    | WEIGHT (g) | ANALYSIS | COMMENTS                    |
|--------------|------------|----------|-----------------------------|
| 176009-007 D | 30.28      | 8270     |                             |
| -008         | 30.02      |          | MSS                         |
| -009         | 30.24      |          |                             |
| -010         | 30.47      |          | * HOT *                     |
| -011         | 30.15      |          |                             |
| -012         | 29.84      |          |                             |
| -013         | 30.16      |          |                             |
| -014         | 30.28      |          |                             |
| -015         | 30.11      |          |                             |
| -016         | 29.88      |          |                             |
| -017         | 30.11      |          |                             |
| -018         | 30.37      |          |                             |
| -019         | 30.09      |          |                             |
| -020         | 29.93      |          |                             |
| -021         | 30.41      |          |                             |
| -022         | 30.17      |          |                             |
| -023         | 30.35      |          |                             |
| -024         | 30.47      |          |                             |
| -025         | 29.79      |          |                             |
| -026 ↓       | 30.33      |          |                             |
| MS           | 30.16      |          | 176009-008 D                |
| MSD          | 29.91      |          | ↓                           |
| LCS          | 30.13      |          | EM44028421                  |
| MB           | 30.35      |          | ↓                           |
| 176000-001 E | 50.11      | TEST     |                             |
| -002         | 50.35      |          |                             |
| -003         | 50.13      |          |                             |
| -004         | 50.35      |          |                             |
| -005 ↓       | 50.15      |          |                             |
| 175903-001 A | 50.99      | TEAM     | more sample left, reextract |
| 176032-001 B | 50.18      | TEAM     |                             |
| 176023-001 A | 15.11      | PCB      |                             |

11/16/04

Continued on Page

Michelle Curtis

Signed

11/16/04

Date

64

Read and Understood By

Signed

Date

| SAMPLE ID  | WEIGHT (g) | ANALYSIS | COMMENTS           |
|------------|------------|----------|--------------------|
| 176064-019 | 14.96      | 8081     | 3, COMP 1A, 3A, 5A |
| -020       | 15.04      |          | 2A, 9A, 11A        |
| -021       | 15.22      |          | 7A, 9A, 11A        |
| -022       | 15.05      |          | 8A, 10A, 12A       |
| -023       | 15.05      |          | 13A, 14A, 17A      |
| -024       | 14.99      |          | 16A, 17A, 18A      |
| -025       | 15.20      |          | ↓ 13A, 14A, 15A    |
| ✓ -026     | 15.14      |          | COMP 10A, 11A, 15A |
| MS         | 14.91      |          | 176064-026         |
| MSD        | 14.94      |          | ↓                  |
| USS        | 14.98      |          | EM44028421         |
| MB         | 15.11      |          | ↓                  |
| 176064-027 | 15.00      | 8081     | COMP 13A-15A       |
| 176085-001 | 30.20      | 8100     | 4, COMP A-D        |
| 176079-003 |            | 8310     |                    |
| -004       |            |          |                    |
| -031       |            |          |                    |
| ✓ -032     |            |          |                    |
| MS         |            |          |                    |
| MSD        |            |          |                    |
| 176085-001 | 15.18      | 8081     | 4, COMP A-D        |
| -001       | 14.90      | PCB      |                    |
| ✓ -001     | 50.08      | TEHM     | ↓                  |
| 176086-001 | 50.37      | TEHM     | 2, COMP A-B        |
| -002       | 50.20      |          |                    |
| -003       | 50.11      |          |                    |
| ✓ -004     | 50.30      |          |                    |

Continued on Page

Michelle Castro

Signed

11/17/04

Date

Read and Understood By

Signed

Date

| Sample ID        | WEIGHT (g) | ANALYSIS | COMMENTS               |
|------------------|------------|----------|------------------------|
| 176079-031 A     | 50.05      | TEHM     | NSS                    |
| ↓ -034 ↓         | 50.03      | ↓        | NSS                    |
| MS               | 49.95      | ↓        | 176079-031A            |
| MSD              | 50.11      | ↓        | ↓                      |
| LOS              | 50.15      | ↓        | EM4402842J             |
| MB               | 49.92      | ↓        | ↓                      |
| LCB              | 50.20      | ↓        | ↓                      |
| MB               | 49.92      | ↓        | ↓                      |
| 176079-013 A     | 14.87      | PCB      |                        |
| ↓ -014 ↓         | 15.22      | ↓        |                        |
| ↓ -012 ↓         | 14.89      | ↓        |                        |
| MS               | 49.94      | TEHM     | 176079-031A            |
| MSD              | 50.32      | ↓        | ↓                      |
| 176105-001A      | 30.49      | 8100     |                        |
| 176089-013B      | 30.25      | 8210     |                        |
| 176065-001A      | 14.93      | 8081     |                        |
| ↓ -002 ↓         | 15.13      | ↓        |                        |
| ↓ -003 ↓         | 14.98      | ↓        |                        |
| 176098-001A      | 14.95      | PCB      | Wet, M: Miscell        |
| ↓ -002 ↓         | 14.84      | ↓        | ↓                      |
| 1760102-021A     | 15.03      | PCB      |                        |
| ↓ -002 ↓         | 15.18      | ↓        |                        |
| 176102-021A      | 15.08      | 8081     |                        |
| ↓ -022 ↓         | 15.09      | ↓        |                        |
| 176-011-002B     | 14.99      | PCB      | re-extract             |
| MS               | 15.23      | PCB      | Re-weighed with sample |
| MSD              | 14.98      | ↓        | after homogenizing     |
|                  |            |          | all three. 8/31/17/04  |
| MICHAEL 11/17/04 |            |          |                        |
| BB 11/17/04      |            |          |                        |

Continued on Page

Michelle Curtis

Signed

11/17/04

Date

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Read and Understood By

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Date

Continued from Page

| SAMPLE ID  | WEIGHT (g) | ANALYSIS | COMMENTS      |
|------------|------------|----------|---------------|
| 17611H-005 | 15.16      | PCB      | F, COMP 1A-4A |
| 17611H-005 | 15.06      | 5051     | ↓             |

Continued on Page

Mitchell C. Curtis  
Signed

11/18/04  
Date

Curtis & Tompkins Laboratories  
MDL Summary for EPA 8082 Soil 3545

| Analyte      | Units | GC06 A       | GC06 B       | GC14B A      | GC14B B      | GC21 A       | GC21 B       | GC22 A       | GC22 B       |
|--------------|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Aroclor-1016 | ug/Kg | 12/19/03 3.9 | 12/19/03 9.0 |              |              |              |              | 04/07/04 2.1 | 04/07/04 2.7 |
| Aroclor-1221 | ug/Kg | 04/10/04 18  | 04/10/04 15  |              |              | 05/13/03 17  | 05/13/03 21  | 04/19/04 12  | 04/19/04 12  |
| Aroclor-1232 | ug/Kg | 02/18/04 4.0 | 02/18/04 4.8 |              |              | 04/07/03 4.9 | 04/07/03 1.7 | 02/17/04 8.5 | 02/17/04 8.8 |
| Aroclor-1242 | ug/Kg | 02/18/04 5.5 | 02/18/04 5.1 | 05/04/04 4.1 | 05/04/04 3.5 | 07/30/03 5.6 | 07/30/03 5.1 | 01/15/04 3.2 | 01/15/04 1.9 |
| Aroclor-1248 | ug/Kg | 12/11/03 3.1 | 12/11/03 3.4 |              |              | 04/08/03 2.0 | 04/08/03 1.9 | 01/23/04 3.2 | 01/23/04 7.8 |
| Aroclor-1254 | ug/Kg | 11/02/04 4.4 | 11/02/04 3.7 |              |              | 08/02/03 2.3 | 08/02/03 2.0 | 10/30/04 4.0 | 10/30/04 2.9 |
| Aroclor-1260 | ug/Kg | 12/19/03 3.9 | 12/19/03 3.9 |              |              |              |              | 04/07/04 2.2 | 04/07/04 2.5 |

## **METALS**

1



### California Title 26 Metals

|           |                   |           |                        |
|-----------|-------------------|-----------|------------------------|
| Lab #:    | 176111            | Location: | Presidio Baker Beach 3 |
| Client:   | Treadwell & Rollo | Prep:     | EPA 3050B              |
| Project#: | 2893.12           | Analysis: | EPA 6010B              |
| Field ID: | BB3 COMP          | Batch#:   | 96610                  |
| Lab ID:   | 176111-005        | Sampled:  | 11/17/04               |
| Matrix:   | Soil              | Received: | 11/17/04               |
| Units:    | mg/Kg             | Prepared: | 11/18/04               |
| Basis:    | dry               | Analyzed: | 11/18/04               |

Moisture: 8%

| Analyte    | Result | RL    | Diln Fac |
|------------|--------|-------|----------|
| Antimony   | ND     | 2.4   | 1.000    |
| Arsenic    | 4.3    | 0.20  | 1.000    |
| Barium     | 390    | 0.40  | 1.000    |
| Beryllium  | 0.66   | 0.079 | 1.000    |
| Cadmium    | 0.69   | 0.20  | 1.000    |
| Chromium   | 46     | 0.40  | 1.000    |
| Cobalt     | 17     | 0.79  | 1.000    |
| Copper     | 110    | 0.40  | 1.000    |
| Iron       | 30,000 | 40    | 10.00    |
| Lead       | 22     | 0.12  | 1.000    |
| Manganese  | 2,300  | 4.0   | 10.00    |
| Molybdenum | 0.96   | 0.79  | 1.000    |
| Nickel     | 61     | 0.79  | 1.000    |
| Selenium   | ND     | 0.20  | 1.000    |
| Silver     | ND     | 0.20  | 1.000    |
| Thallium   | ND     | 0.20  | 1.000    |
| Vanadium   | 42     | 0.40  | 1.000    |
| Zinc       | 58     | 0.79  | 1.000    |

ND= Not Detected  
RL= Reporting Limit  
Page 1 of 1

## Batch QC Report

| California Title 26 Metals |                   |           |                        |
|----------------------------|-------------------|-----------|------------------------|
| Lab #:                     | 176111            | Location: | Presidio Baker Beach 3 |
| Client:                    | Treadwell & Rollo | Prep:     | EPA 3050B              |
| Project#:                  | 2893.12           | Analysis: | EPA 6010B              |
| Type:                      | BLANK             | Diln Fac: | 1.000                  |
| Lab ID:                    | QC272742          | Batch#:   | 96610                  |
| Matrix:                    | Soil              | Prepared: | 11/18/04               |
| Units:                     | mg/Kg             | Analyzed: | 11/18/04               |
| Basis:                     | as received       |           |                        |

| Analyte    | Result | RL   |
|------------|--------|------|
| Antimony   | ND     | 3.0  |
| Arsenic    | ND     | 0.25 |
| Barium     | ND     | 0.50 |
| Beryllium  | ND     | 0.10 |
| Cadmium    | ND     | 0.25 |
| Chromium   | ND     | 0.50 |
| Cobalt     | ND     | 1.0  |
| Copper     | ND     | 0.50 |
| Iron       | ND     | 5.0  |
| Lead       | ND     | 0.15 |
| Manganese  | ND     | 0.50 |
| Molybdenum | ND     | 1.0  |
| Nickel     | ND     | 1.0  |
| Selenium   | ND     | 0.25 |
| Silver     | ND     | 0.25 |
| Thallium   | ND     | 0.25 |
| Vanadium   | ND     | 0.50 |
| Zinc       | ND     | 1.0  |

ND= Not Detected  
RL= Reporting Limit  
Page 1 of 1

## Batch QC Report

| California Title 26 Metals |                   |           |                        |
|----------------------------|-------------------|-----------|------------------------|
| Lab #:                     | 176111            | Location: | Presidio Baker Beach 3 |
| Client:                    | Treadwell & Rollo | Prep:     | EPA 3050B              |
| Project#:                  | 2893.12           | Analysis: | EPA 6010B              |
| Matrix:                    | Soil              | Batch#:   | 96610                  |
| Units:                     | mg/Kg             | Prepared: | 11/18/04               |
| Basis:                     | as received       | Analyzed: | 11/18/04               |
| Diln Fac:                  | 1.000             |           |                        |

Type: BS Lab ID: QC272743

| Analyte    | Spiked | Result | %REC | Limits |
|------------|--------|--------|------|--------|
| Antimony   | 100.0  | 100.0  | 100  | 75-125 |
| Arsenic    | 50.00  | 52.00  | 104  | 75-125 |
| Barium     | 100.0  | 101.5  | 102  | 75-125 |
| Beryllium  | 2.500  | 2.570  | 103  | 75-125 |
| Cadmium    | 10.00  | 10.30  | 103  | 75-125 |
| Chromium   | 100.0  | 101.5  | 102  | 75-125 |
| Cobalt     | 25.00  | 25.15  | 101  | 75-125 |
| Copper     | 12.50  | 12.75  | 102  | 75-125 |
| Iron       | 1,000  | 1,009  | 101  | 75-125 |
| Lead       | 100.0  | 101.5  | 102  | 75-125 |
| Manganese  | 25.00  | 25.05  | 100  | 75-125 |
| Molybdenum | 20.00  | 20.65  | 103  | 75-125 |
| Nickel     | 25.00  | 25.45  | 102  | 75-125 |
| Selenium   | 50.00  | 49.70  | 99   | 75-125 |
| Silver     | 10.00  | 10.30  | 103  | 75-125 |
| Thallium   | 50.00  | 51.00  | 102  | 75-125 |
| Vanadium   | 25.00  | 25.65  | 103  | 75-125 |
| Zinc       | 25.00  | 23.75  | 95   | 75-125 |

Type: BSD Lab ID: QC272744

| Analyte    | Spiked | Result | %REC | Limits | RPD | Lim |
|------------|--------|--------|------|--------|-----|-----|
| Antimony   | 100.0  | 100.0  | 100  | 75-125 | 0   | 30  |
| Arsenic    | 50.00  | 50.00  | 100  | 75-125 | 4   | 30  |
| Barium     | 100.0  | 99.50  | 100  | 75-125 | 2   | 30  |
| Beryllium  | 2.500  | 2.525  | 101  | 75-125 | 2   | 30  |
| Cadmium    | 10.00  | 10.00  | 100  | 75-125 | 3   | 30  |
| Chromium   | 100.0  | 99.50  | 100  | 75-125 | 2   | 30  |
| Cobalt     | 25.00  | 24.65  | 99   | 75-125 | 2   | 30  |
| Copper     | 12.50  | 12.50  | 100  | 75-125 | 2   | 30  |
| Iron       | 1,000  | 986.0  | 99   | 75-125 | 2   | 30  |
| Lead       | 100.0  | 101.0  | 101  | 75-125 | 0   | 30  |
| Manganese  | 25.00  | 24.55  | 98   | 75-125 | 2   | 30  |
| Molybdenum | 20.00  | 20.40  | 102  | 75-125 | 1   | 30  |
| Nickel     | 25.00  | 24.85  | 99   | 75-125 | 2   | 30  |
| Selenium   | 50.00  | 49.50  | 99   | 75-125 | 0   | 30  |
| Silver     | 10.00  | 10.10  | 101  | 75-125 | 2   | 30  |
| Thallium   | 50.00  | 49.85  | 100  | 75-125 | 2   | 30  |
| Vanadium   | 25.00  | 25.10  | 100  | 75-125 | 2   | 30  |
| Zinc       | 25.00  | 23.20  | 93   | 75-125 | 2   | 30  |

# Batch QC Report

| California Title 26 Metals |                   |           |                        |
|----------------------------|-------------------|-----------|------------------------|
| Lab #:                     | 176111            | Location: | Presidio Baker Beach 3 |
| Client:                    | Treadwell & Rollo | Prep:     | EPA 3050B              |
| Project#:                  | 2893.12           | Analysis: | EPA 6010B              |
| Field ID:                  | ZZZZZZZZZZ        | Batch#:   | 96610                  |
| MSS Lab ID:                | 176109-002        | Sampled:  | 11/16/04               |
| Matrix:                    | Soil              | Received: | 11/17/04               |
| Units:                     | mg/Kg             | Prepared: | 11/18/04               |
| Basis:                     | dry               | Analyzed: | 11/18/04               |
| Diln Fac:                  | 1.000             |           |                        |

Type: MS  
Lab ID: QC272745

Moisture: 7%

| Analyte    | MSS Result | Spiked | Result     | %REC   | Limits |
|------------|------------|--------|------------|--------|--------|
| Antimony   | 2.034      | 100.5  | 67.33      | 65 *   | 75-125 |
| Arsenic    | 2.665      | 50.25  | 51.75      | 98     | 75-125 |
| Barium     | 35.36      | 100.5  | 133.7      | 98     | 75-125 |
| Beryllium  | 0.1987     | 2.512  | 2.628      | 97     | 75-125 |
| Cadmium    | 0.3799     | 10.05  | 10.35      | 99     | 75-125 |
| Chromium   | 48.50      | 100.5  | 141.2      | 92     | 75-125 |
| Cobalt     | 6.019      | 25.12  | 30.30      | 97     | 75-125 |
| Copper     | 6.604      | 12.56  | 18.94      | 98     | 75-125 |
| Iron       | 14,680     | 1,005  | 16,010 >LR | 133 NM | 75-125 |
| Lead       | 94.09      | 100.5  | 206.0      | 111    | 75-125 |
| Manganese  | 213.3      | 25.12  | 241.2      | 111 NM | 75-125 |
| Molybdenum | 0.2191     | 20.10  | 19.70      | 97     | 75-125 |
| Nickel     | 23.14      | 25.12  | 46.98      | 95     | 75-125 |
| Selenium   | <0.2043    | 50.25  | 48.34      | 96     | 75-125 |
| Silver     | <0.1183    | 10.05  | 9.899      | 99     | 75-125 |
| Thallium   | <0.2473    | 50.25  | 48.29      | 96     | 75-125 |
| Vanadium   | 42.78      | 25.12  | 67.83      | 100    | 75-125 |
| Zinc       | 41.73      | 25.12  | 62.81      | 84     | 75-125 |

Type: MSD  
Lab ID: QC272746

Moisture: 7%

| Analyte    | Spiked | Result     | %REC   | Limits | RPD | Lim |
|------------|--------|------------|--------|--------|-----|-----|
| Antimony   | 112.0  | 75.04      | 65 *   | 75-125 | 0   | 30  |
| Arsenic    | 56.00  | 57.68      | 98     | 75-125 | 1   | 30  |
| Barium     | 112.0  | 146.7      | 99     | 75-125 | 1   | 30  |
| Beryllium  | 2.800  | 2.929      | 98     | 75-125 | 1   | 30  |
| Cadmium    | 11.20  | 11.42      | 99     | 75-125 | 1   | 30  |
| Chromium   | 112.0  | 157.9      | 98     | 75-125 | 4   | 30  |
| Cobalt     | 28.00  | 33.10      | 97     | 75-125 | 0   | 30  |
| Copper     | 14.00  | 20.33      | 98     | 75-125 | 0   | 30  |
| Iron       | 1,120  | 16,150 >LR | 132 NM | 75-125 | NC  | 30  |
| Lead       | 112.0  | 206.1      | 100    | 75-125 | 6   | 30  |
| Manganese  | 28.00  | 241.4      | 100 NM | 75-125 | 1   | 30  |
| Molybdenum | 22.40  | 22.01      | 97     | 75-125 | 0   | 30  |
| Nickel     | 28.00  | 50.46      | 98     | 75-125 | 1   | 30  |
| Selenium   | 56.00  | 53.54      | 96     | 75-125 | 1   | 30  |
| Silver     | 11.20  | 11.03      | 99     | 75-125 | 0   | 30  |
| Thallium   | 56.00  | 54.16      | 97     | 75-125 | 1   | 30  |
| Vanadium   | 28.00  | 70.56      | 99     | 75-125 | 0   | 30  |
| Zinc       | 28.00  | 64.96      | 83     | 75-125 | 1   | 30  |

\*= Value outside of QC limits; see narrative  
 NC= Not Calculated  
 NM= Not Meaningful; Sample concentration > 4X spike concentration  
 >LR= Response exceeds instrument's linear range  
 RPD= Relative Percent Difference  
 Page 1 of 1

# Batch QC Report

| California Title 26 Metals |                   |           |                        |
|----------------------------|-------------------|-----------|------------------------|
| Lab #:                     | 176111            | Location: | Presidio Baker Beach 3 |
| Client:                    | Treadwell & Rollo | Prep:     | EPA 3050B              |
| Project#:                  | 2893.12           | Analysis: | EPA 6010B              |
| Field ID:                  | ZZZZZZZZZZ        | Basis:    | dry                    |
| Type:                      | Serial Dilution   | Batch#:   | 96610                  |
| MSS Lab ID:                | 176109-002        | Sampled:  | 11/16/04               |
| Lab ID:                    | QC272747          | Received: | 11/17/04               |
| Matrix:                    | Soil              | Analyzed: | 11/18/04               |
| Units:                     | mg/Kg             |           |                        |

Moisture: 7%

| Analyte    | MSS Result | MSS RL | Result | RL   | % Diff | Lim | Diln  | Fac |
|------------|------------|--------|--------|------|--------|-----|-------|-----|
| Antimony   | ND         | 3.506  | 1.4 J  | 18   |        | 10  | 5.000 |     |
| Arsenic    | 2.665      | 0.2922 | 3.4    | 1.5  |        | 10  | 5.000 |     |
| Barium     | 35.36      | 0.5844 | 34     | 2.9  | 5      | 10  | 5.000 |     |
| Beryllium  | 0.1987     | 0.1169 | 0.44 J | 0.58 |        | 10  | 5.000 |     |
| Cadmium    | 0.3799     | 0.2922 | 0.45 J | 1.5  |        | 10  | 5.000 |     |
| Chromium   | 48.50      | 0.5844 | 47     | 2.9  | 3      | 10  | 5.000 |     |
| Cobalt     | 6.019      | 1.169  | 5.9    | 5.8  | 2      | 10  | 5.000 |     |
| Copper     | 6.604      | 0.5844 | 6.3    | 2.9  | 4      | 10  | 5.000 |     |
| Iron       | 14,680     | 29.22  | 16,000 | 150  | 9      | 10  | 25.00 |     |
| Lead       | 94.09      | 0.1753 | 91     | 0.88 | 3      | 10  | 5.000 |     |
| Manganese  | 213.3      | 0.5844 | 200    | 2.9  | 4      | 10  | 5.000 |     |
| Molybdenum | ND         | 1.169  | ND     | 5.8  |        | 10  | 5.000 |     |
| Nickel     | 23.14      | 1.169  | 22     | 5.8  | 3      | 10  | 5.000 |     |
| Selenium   | ND         | 0.2922 | 1.1 J  | 1.5  |        | 10  | 5.000 |     |
| Silver     | ND         | 0.2922 | ND     | 1.5  |        | 10  | 5.000 |     |
| Thallium   | ND         | 0.2922 | ND     | 1.5  |        | 10  | 5.000 |     |
| Vanadium   | 42.78      | 0.5844 | 41     | 2.9  | 4      | 10  | 5.000 |     |
| Zinc       | 41.73      | 1.169  | 41     | 5.8  | 3      | 10  | 5.000 |     |

J= Estimated value  
 ND= Not Detected  
 RL= Reporting Limit  
 Page 1 of 1

POST DIGEST SPIKE USER REPORT  
Curtis & Tompkins Laboratories  
EPA 6010B

|                         |                         |
|-------------------------|-------------------------|
| Instid : MET07          | Instid : MET07          |
| Seqnum : 74465537048    | Seqnum : 74465537051    |
| Filename : tr255229     | Filename : tr255232     |
| IDF : 1.0               | IDF : 1.0               |
| PDF : 54.35             | PDF : 54.35             |
| Run type : MSS          | Run type : PDS          |
| Samplenum: 176109-002   | Samplenum: QC272766     |
| Matrix : Soil           | Matrix : Soil           |
| Batchnum : 96610        | Batchnum : 96610        |
| Inj : 18-NOV-2004 12:46 | Inj : 18-NOV-2004 13:00 |
| Units : ug/L            |                         |

| Analyte    | MSS                               | Spike Amt | PDS    | %Rec   | Lim    | %Rec | Flags |
|------------|-----------------------------------|-----------|--------|--------|--------|------|-------|
| Aluminum   | 89620                             | 20000     | 106900 | >LR 86 | 58-148 |      | : >LR |
| Antimony   | 34.80                             | 2000      | 1920   | 94     | 16-120 |      | u     |
| Arsenic    | 45.60                             | 1000      | 994.0  | 95     | 62-120 |      | u     |
| Barium     | 605.0                             | 2000      | 2500   | 95     | 51-137 |      | u     |
| Beryllium  | 3.400                             | 50        | 49.80  | 93     | 70-120 |      | u     |
| Cadmium    | 6.500                             | 200       | 196.0  | 95     | 61-120 |      | u     |
| Calcium    | 60940                             | 20000     | 78900  | 90     | 40-149 |      |       |
| Chromium   | 830.0                             | 2000      | 2690   | 93     | 60-120 |      | u     |
| Cobalt     | 103.0                             | 500       | 566.0  | 93     | 56-120 |      | u     |
| Copper     | 113.0                             | 250       | 347.0  | 94     | 47-144 |      | u     |
| Iron       | *** usable MSS data not found *** |           |        |        |        |      |       |
| Lead       | 1610                              | 2000      | 3550   | 97     | 47-126 |      | u     |
| Magnesium  | 39450                             | 20000     | 58760  | 97     | 44-152 |      |       |
| Manganese  | 3650                              | 500       | 4080   | 86     | 62-131 |      | : u   |
| Molybdenum | 3.750                             | 400       | 398.0  | 99     | 57-120 |      | u     |
| Nickel     | 396.0                             | 500       | 859.0  | 93     | 41-138 |      | u     |
| Selenium   | ND                                | 1000      | 970.0  | 97     | 35-122 |      | u     |
| Silver     | ND                                | 200       | 188.0  | 94     | 71-120 |      | u     |
| Thallium   | ND                                | 1000      | 954.0  | 95     | 53-120 |      | u     |
| Vanadium   | 732.0                             | 500       | 1200   | 94     | 48-136 |      | u     |
| Zinc       | 714.0                             | 500       | 1130   | 83     | 38-144 |      | u     |
| Titanium   | *** usable MSS data not found *** |           |        |        |        |      |       |



Method: 6010B      Standard: blank  
Run Time: 11/18/04 06:50:14

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | Sb2068 | Sb206A | As1890 | Ba4934 | Be3130 | Cd2265 | Cr2677 |
| Avge | -.002  | .003   | .000   | .006   | -.273  | .004   | .001   |
| SDev | .001   | .001   | .002   | .000   | .000   | .002   | .000   |
| %RSD | 39.3   | 19.6   | 455.   | 2.84   | .114   | 47.8   | 20.6   |
| #1   | -.003  | .002   | -.001  | .006   | -.272  | .006   | .001   |
| #2   | -.002  | .003   | .001   | .006   | -.273  | .003   | .000   |
| Elem | Co2286 | Cu3247 | Pb2203 | Pb220A | Mo2020 | Ni2316 | Se1960 |
| Avge | -.000  | .006   | .011   | -.003  | .002   | .004   | -.007  |
| SDev | .001   | .001   | .001   | .000   | .001   | .000   | .002   |
| %RSD | 1400.  | 10.4   | 10.7   | 16.5   | 31.1   | 1.53   | 24.3   |
| #1   | .000   | .006   | .012   | -.003  | .002   | .004   | -.005  |
| #2   | -.001  | .007   | .010   | -.002  | .003   | .004   | -.008  |
| Elem | Se196A | Ag3280 | Tl1908 | V_2924 | Zn2138 | Al3082 | Ca3179 |
| Avge | .002   | -.001  | -.004  | .001   | .034   | .0514  | -.0017 |
| SDev | .001   | .000   | .001   | .000   | .000   | .0001  | .0001  |
| %RSD | 41.3   | 25.8   | 36.0   | 18.9   | .081   | .2333  | 3.844  |
| #1   | .003   | -.001  | -.003  | .001   | .034   | .0513  | -.0016 |
| #2   | .002   | -.002  | -.005  | .001   | .034   | .0515  | -.0017 |
| Elem | Fe2714 | Mg2790 | Mn2576 | Ti3349 |        |        |        |
| Avge | -.0016 | .0002  | .000   | .299   |        |        |        |
| SDev | .0002  | .0002  | .001   | .001   |        |        |        |
| %RSD | 14.69  | 98.09  | 94.5   | .416   |        |        |        |
| #1   | -.0014 | .0004  | .001   | .298   |        |        |        |
| #2   | -.0017 | .0001  | .000   | .300   |        |        |        |

Method: 6010B      Standard: cst hi  
Run Time: 11/18/04 06:54:03

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | Sb2068 | Sb206A | As1890 | Ba4934 | Be3130 | Cd2265 | Cr2677 |
| Avge | .794   | .477   | .166   | 12.5   | 2.23   | .772   | .178   |
| SDev | .006   | .001   | .003   | .0     | .01    | .003   | .000   |
| %RSD | .772   | .150   | 2.05   | .049   | .259   | .420   | .084   |
| #1   | .790   | .477   | .164   | 12.5   | 2.22   | .770   | .178   |
| #2   | .798   | .476   | .168   | 12.5   | 2.23   | .775   | .178   |
| Elem | Co2286 | Cu3247 | Pb2203 | Pb220A | Mo2020 | Ni2316 | Se1960 |
| Avge | .523   | .393   | .586   | .591   | 1.25   | 1.29   | .181   |
| SDev | .003   | .000   | .004   | .002   | .01    | .01    | .001   |
| %RSD | .509   | .059   | .670   | .358   | .764   | .396   | .619   |
| #1   | .521   | .392   | .589   | .590   | 1.24   | 1.28   | .182   |
| #2   | .525   | .393   | .583   | .593   | 1.26   | 1.29   | .181   |
| Elem | Se196A | Ag3280 | Tl1908 | V_2924 | Zn2138 | Al3082 | Ca3179 |
| Avge | .201   | .230   | .107   | .677   | .145   | .1345  | .2438  |
| SDev | .004   | .002   | .003   | .001   | .000   | .0005  | .0006  |
| %RSD | 1.94   | .845   | 2.80   | .197   | .296   | .3480  | .2414  |
| #1   | .198   | .231   | .105   | .676   | .145   | .1348  | .2434  |
| #2   | .204   | .229   | .109   | .678   | .145   | .1342  | .2442  |
| Elem | Fe2714 | Mg2790 | Mn2576 | Ti3349 |        |        |        |
| Avge | .0882  | .1289  | .827   | 5.59   |        |        |        |
| SDev | .0006  | .0005  | .002   | .01    |        |        |        |
| %RSD | .6947  | .3920  | .216   | .192   |        |        |        |
| #1   | .0878  | .1286  | .825   | 5.58   |        |        |        |
| #2   | .0886  | .1293  | .828   | 5.60   |        |        |        |

Method: 6010B

Slope = Conc(SIR)/IR

| Element | Wavelen | High std | Low std   | Slope   | Y-intercept | Date Standardized  |
|---------|---------|----------|-----------|---------|-------------|--------------------|
| Sb2068  | 206.831 | Multiple | Standards | 1248.70 | 2.84751     | 11/18/04 06:54:03  |
| Sb206A  | 206.832 | Multiple | Standards | 2068.23 | -5.56488    | 11/18/04 06:54:03  |
| As1890  | 189.042 | Multiple | Standards | 3020.84 | -1.03910    | 11/18/04 06:54:03  |
| Ba4934  | 493.409 | Multiple | Standards | 79.8876 | -.451179    | 11/18/04 06:54:03  |
| Be3130  | 313.042 | Multiple | Standards | 38.6597 | 10.5403     | 11/18/04 06:54:03  |
| Cd2265  | 226.502 | Multiple | Standards | 130.178 | -.563678    | 11/18/04 06:54:03  |
| Cr2677  | 267.716 | Multiple | Standards | 1127.24 | -.651724    | 11/18/04 06:54:03  |
| Co2286  | 228.616 | Multiple | Standards | 958.881 | .046342     | 11/18/04 06:54:03  |
| Cu3247  | 324.754 | Multiple | Standards | 517.667 | -3.24128    | 11/18/04 06:54:03  |
| Pb2203  | 220.351 | Multiple | Standards | 870.288 | -9.58724    | 11/18/04 06:54:03  |
| Pb220A  | 220.352 | Multiple | Standards | 834.747 | 2.17852     | 11/18/04 06:54:03  |
| Mo2020  | 202.030 | Multiple | Standards | 801.304 | -1.66628    | 11/18/04 06:54:03  |
| Ni2316  | 231.604 | Multiple | Standards | 389.601 | -1.55693    | 11/18/04 06:54:03  |
| Se1960  | 196.021 | Multiple | Standards | 2658.92 | 17.6427     | 11/18/04 06:54:03  |
| Se196A  | 196.022 | Multiple | Standards | 2516.45 | -5.73864    | 11/18/04 06:54:03  |
| Ag3280  | 328.068 | Multiple | Standards | 432.561 | .578300     | 11/18/04 06:54:03  |
| Tl1908  | 190.864 | Multiple | Standards | 4538.49 | 16.9263     | 11/18/04 06:54:03  |
| V_2924  | 292.402 | Multiple | Standards | 739.592 | -.537179    | 11/18/04 06:54:03  |
| Zn2138  | 213.856 | Multiple | Standards | 927.186 | -31.3252    | 11/18/04 06:54:03  |
| Al3082  | 308.215 | Multiple | Standards | 12257.5 | -630.089    | 11/18/04 06:54:03  |
| Ca3179  | 317.933 | Multiple | Standards | 8148.05 | 13.5883     | 11/18/04 06:54:03  |
| Fe2714  | 271.441 | Multiple | Standards | 11662.0 | 18.0970     | 11/18/04 06:54:03  |
| Mg2790  | 279.079 | Multiple | Standards | 15530.6 | -3.33976    | 11/18/04 06:54:03  |
| Mn2576  | 257.610 | Multiple | Standards | 121.082 | -.060083    | 11/18/04 06:54:03  |
| Pb sum  | 220.353 | NONE     | NONE      | 1.00000 | .000000     | *11/18/04 06:54:03 |
| Sb sum  | 206.838 | NONE     | NONE      | 1.00000 | .000000     | *11/18/04 06:54:03 |
| Se sum  | 196.026 | NONE     | NONE      | 1.00000 | .000000     | *11/18/04 06:54:03 |
| Ti3349  | 334.941 | Multiple | Standards | 188.986 | -56.5185    | 11/18/04 06:54:03  |

INITIAL CALIBRATION CHECK STANDARD  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537001

Run Name :  
Filename : tr255180

Injected : 18-NOV-2004 06:57  
Caltype :

Standards: 04WS1891

| Analyte    | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|----------|----------|-------|----|-----|----|-------|
| Aluminum   | 1000.000 | 985.4000 | ug/L  | -1 |     | 5  |       |
| Antimony   | 1000.000 | 990.0000 | ug/L  | -1 |     | 5  |       |
| Arsenic    | 500.0000 | 502.0000 | ug/L  | 0  |     | 5  |       |
| Barium     | 1000.000 | 993.0000 | ug/L  | -1 |     | 5  |       |
| Beryllium  | 100.0000 | 100.0000 | ug/L  | 0  |     | 5  |       |
| Cadmium    | 100.0000 | 100.0000 | ug/L  | 0  |     | 5  |       |
| Calcium    | 2000.000 | 2009.000 | ug/L  | 0  |     | 5  |       |
| Chromium   | 200.0000 | 200.0000 | ug/L  | 0  |     | 5  |       |
| Cobalt     | 500.0000 | 500.0000 | ug/L  | 0  |     | 5  |       |
| Copper     | 200.0000 | 200.0000 | ug/L  | 0  |     | 5  |       |
| Iron       | 1000.000 | 997.1000 | ug/L  | 0  |     | 5  |       |
| Lead       | 500.0000 | 497.0000 | ug/L  | -1 |     | 5  |       |
| Magnesium  | 2000.000 | 2007.000 | ug/L  | 0  |     | 5  |       |
| Manganese  | 100.0000 | 99.90000 | ug/L  | 0  |     | 5  |       |
| Molybdenum | 1000.000 | 1000.000 | ug/L  | 0  |     | 5  |       |
| Nickel     | 500.0000 | 499.0000 | ug/L  | 0  |     | 5  |       |
| Selenium   | 500.0000 | 494.0000 | ug/L  | -1 |     | 5  |       |
| Silver     | 100.0000 | 99.40000 | ug/L  | -1 |     | 5  |       |
| Thallium   | 500.0000 | 500.0000 | ug/L  | 0  |     | 5  |       |
| Titanium   | 1000.000 | 997.0000 | ug/L  | 0  |     | 5  |       |
| Vanadium   | 500.0000 | 499.0000 | ug/L  | 0  |     | 5  |       |
| Zinc       | 100.0000 | 100.0000 | ug/L  | 0  |     | 5  |       |

SECOND SOURCE CALIBRATION VERIFICATION  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537002

Run Name :  
Filename : tr255181

Injected : 18-NOV-2004 07:06  
Caltype :

Standards: 04WS2066

| Analyte    | SpkAmt   | QuantAmt | Units | %D | Max | Flags |
|------------|----------|----------|-------|----|-----|-------|
| Aluminum   | 500.0000 | 496.8000 | ug/L  | -1 | 10  |       |
| Antimony   | 500.0000 | 494.0000 | ug/L  | -1 | 10  |       |
| Arsenic    | 250.0000 | 249.0000 | ug/L  | 0  | 10  |       |
| Barium     | 500.0000 | 490.0000 | ug/L  | -2 | 10  |       |
| Beryllium  | 50.00000 | 49.40000 | ug/L  | -1 | 10  |       |
| Cadmium    | 50.00000 | 49.80000 | ug/L  | 0  | 10  |       |
| Calcium    | 1000.000 | 1039.000 | ug/L  | 4  | 10  |       |
| Chromium   | 100.0000 | 99.80000 | ug/L  | 0  | 10  |       |
| Cobalt     | 250.0000 | 244.0000 | ug/L  | -2 | 10  |       |
| Copper     | 100.0000 | 101.0000 | ug/L  | 1  | 10  |       |
| Iron       | 500.0000 | 530.7000 | ug/L  | 6  | 10  |       |
| Lead       | 250.0000 | 248.0000 | ug/L  | -1 | 10  |       |
| Magnesium  | 1000.000 | 1014.000 | ug/L  | 1  | 10  |       |
| Manganese  | 50.00000 | 49.20000 | ug/L  | -2 | 10  |       |
| Molybdenum | 500.0000 | 503.0000 | ug/L  | 1  | 10  |       |
| Nickel     | 250.0000 | 247.0000 | ug/L  | -1 | 10  |       |
| Selenium   | 250.0000 | 249.0000 | ug/L  | 0  | 10  |       |
| Silver     | 50.00000 | 51.80000 | ug/L  | 4  | 10  |       |
| Thallium   | 250.0000 | 246.0000 | ug/L  | -2 | 10  |       |
| Titanium   | 500.0000 | 508.0000 | ug/L  | 2  | 10  |       |
| Vanadium   | 250.0000 | 247.0000 | ug/L  | -1 | 10  |       |
| Zinc       | 50.00000 | 50.60000 | ug/L  | 1  | 10  |       |

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537004

Run Name :  
Filename : tr255183

Injected : 18-NOV-2004 07:31  
Caltpe :

Standards: 04WS1931

| Analyte    | SpkAmt   | QuantAmt | Units | %D  | Max | %D | Flags |
|------------|----------|----------|-------|-----|-----|----|-------|
| Aluminum   | 100.0000 | 110.4000 | ug/L  | 10  |     | 50 |       |
| Antimony   | 60.00000 | 59.80000 | ug/L  | 0   |     | 50 |       |
| Arsenic    | 5.000000 | 3.200000 | ug/L  | -36 |     | 50 |       |
| Barium     | 10.00000 | 9.780000 | ug/L  | -2  |     | 50 |       |
| Beryllium  | 2.000000 | 1.970000 | ug/L  | -2  |     | 50 |       |
| Cadmium    | 5.000000 | 5.000000 | ug/L  | 0   |     | 50 |       |
| Calcium    | 200.0000 | 242.1000 | ug/L  | 21  |     | 50 |       |
| Chromium   | 10.00000 | 10.60000 | ug/L  | 6   |     | 50 |       |
| Cobalt     | 20.00000 | 19.40000 | ug/L  | -3  |     | 50 |       |
| Copper     | 10.00000 | 11.60000 | ug/L  | 16  |     | 50 |       |
| Iron       | 100.0000 | 121.3000 | ug/L  | 21  |     | 50 |       |
| Lead       | 3.000000 | 3.470000 | ug/L  | 16  |     | 50 |       |
| Magnesium  | 200.0000 | 209.0000 | ug/L  | 5   |     | 50 |       |
| Manganese  | 10.00000 | 10.10000 | ug/L  | 1   |     | 50 |       |
| Molybdenum | 20.00000 | 18.10000 | ug/L  | -10 |     | 50 |       |
| Nickel     | 20.00000 | 19.40000 | ug/L  | -3  |     | 50 |       |
| Selenium   | 5.000000 | 4.770000 | ug/L  | -5  |     | 50 |       |
| Silver     | 5.000000 | 5.790000 | ug/L  | 16  |     | 50 |       |
| Thallium   | 5.000000 | 5.210000 | ug/L  | 4   |     | 50 |       |
| Vanadium   | 10.00000 | 9.920000 | ug/L  | -1  |     | 50 |       |
| Zinc       | 20.00000 | 22.00000 | ug/L  | 10  |     | 50 |       |



CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537012

Run Name :  
Filename : tr255191

IDF : 1.0  
Injected : 18-NOV-2004 08:30  
Caltpe :

Standards: 04WS2067

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|-------|----------|----------|-------|----|-----|----|-------|
| Aluminum   |       | 500.0000 | 484.9000 | ug/L  | -3 |     | 10 |       |
| Antimony   |       | 500.0000 | 506.0000 | ug/L  | 1  |     | 10 |       |
| Arsenic    |       | 250.0000 | 248.0000 | ug/L  | -1 |     | 10 |       |
| Barium     |       | 500.0000 | 500.0000 | ug/L  | 0  |     | 10 |       |
| Beryllium  |       | 50.00000 | 49.20000 | ug/L  | -2 |     | 10 |       |
| Cadmium    |       | 50.00000 | 50.60000 | ug/L  | 1  |     | 10 |       |
| Calcium    |       | 1000.000 | 1066.000 | ug/L  | 7  |     | 10 |       |
| Chromium   |       | 100.0000 | 101.0000 | ug/L  | 1  |     | 10 |       |
| Cobalt     |       | 250.0000 | 246.0000 | ug/L  | -2 |     | 10 |       |
| Copper     |       | 100.0000 | 101.0000 | ug/L  | 1  |     | 10 |       |
| Iron       |       | 500.0000 | 553.9000 | ug/L  | 11 |     | 10 | c+ ** |
| Lead       |       | 250.0000 | 252.0000 | ug/L  | 1  |     | 10 |       |
| Magnesium  |       | 1000.000 | 1091.000 | ug/L  | 9  |     | 10 |       |
| Manganese  |       | 50.00000 | 49.20000 | ug/L  | -2 |     | 10 |       |
| Molybdenum |       | 500.0000 | 501.0000 | ug/L  | 0  |     | 10 |       |
| Nickel     |       | 250.0000 | 249.0000 | ug/L  | 0  |     | 10 |       |
| Selenium   |       | 250.0000 | 250.0000 | ug/L  | 0  |     | 10 |       |
| Silver     |       | 50.00000 | 52.60000 | ug/L  | 5  |     | 10 |       |
| Thallium   |       | 250.0000 | 242.0000 | ug/L  | -3 |     | 10 |       |
| Titanium   |       | 500.0000 | 515.0000 | ug/L  | 3  |     | 10 |       |
| Vanadium   |       | 250.0000 | 249.0000 | ug/L  | 0  |     | 10 |       |
| Zinc       |       | 50.00000 | 52.40000 | ug/L  | 5  |     | 10 |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537024

Run Name :  
Filename : tr255204

IDF : 1.0  
Injected : 18-NOV-2004 09:34  
Caltpe :

Standards: 04WS2007

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|-------|----------|----------|-------|----|-----|----|-------|
| Aluminum   |       | 750.0000 | 717.0000 | ug/L  | -4 |     | 10 |       |
| Antimony   |       | 750.0000 | 747.0000 | ug/L  | 0  |     | 10 |       |
| Arsenic    |       | 375.0000 | 378.0000 | ug/L  | 1  |     | 10 |       |
| Barium     |       | 750.0000 | 728.0000 | ug/L  | -3 |     | 10 |       |
| Beryllium  |       | 75.00000 | 75.60000 | ug/L  | 1  |     | 10 |       |
| Cadmium    |       | 75.00000 | 72.70000 | ug/L  | -3 |     | 10 |       |
| Calcium    |       | 1500.000 | 1554.000 | ug/L  | 4  |     | 10 |       |
| Chromium   |       | 150.0000 | 152.0000 | ug/L  | 1  |     | 10 |       |
| Cobalt     |       | 375.0000 | 371.0000 | ug/L  | -1 |     | 10 |       |
| Copper     |       | 150.0000 | 149.0000 | ug/L  | -1 |     | 10 |       |
| Iron       |       | 750.0000 | 776.1000 | ug/L  | 3  |     | 10 |       |
| Lead       |       | 375.0000 | 372.0000 | ug/L  | -1 |     | 10 |       |
| Magnesium  |       | 1500.000 | 1668.000 | ug/L  | 11 |     | 10 | C+ ** |
| Manganese  |       | 75.00000 | 76.00000 | ug/L  | 1  |     | 10 |       |
| Molybdenum |       | 750.0000 | 754.0000 | ug/L  | 1  |     | 10 |       |
| Nickel     |       | 375.0000 | 367.0000 | ug/L  | -2 |     | 10 |       |
| Selenium   |       | 375.0000 | 369.0000 | ug/L  | -2 |     | 10 |       |
| Silver     |       | 75.00000 | 75.30000 | ug/L  | 0  |     | 10 |       |
| Thallium   |       | 375.0000 | 365.0000 | ug/L  | -3 |     | 10 |       |
| Titanium   |       | 750.0000 | 778.0000 | ug/L  | 4  |     | 10 |       |
| Vanadium   |       | 375.0000 | 374.0000 | ug/L  | 0  |     | 10 |       |
| Zinc       |       | 75.00000 | 74.40000 | ug/L  | -1 |     | 10 |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537036

Run Name :  
Filename : tr255216

IDF : 1.0  
Injected : 18-NOV-2004 10:30  
Caltpe :

Standards: 04WS2067

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|-------|----------|----------|-------|----|-----|----|-------|
| Aluminum   |       | 500.0000 | 459.8000 | ug/L  | -8 |     | 10 |       |
| Antimony   |       | 500.0000 | 498.0000 | ug/L  | 0  |     | 10 |       |
| Arsenic    |       | 250.0000 | 242.0000 | ug/L  | -3 |     | 10 |       |
| Barium     |       | 500.0000 | 484.0000 | ug/L  | -3 |     | 10 |       |
| Beryllium  |       | 50.00000 | 50.90000 | ug/L  | 2  |     | 10 |       |
| Cadmium    |       | 50.00000 | 48.20000 | ug/L  | -4 |     | 10 |       |
| Calcium    |       | 1000.000 | 1016.000 | ug/L  | 2  |     | 10 |       |
| Chromium   |       | 100.0000 | 102.0000 | ug/L  | 2  |     | 10 |       |
| Cobalt     |       | 250.0000 | 248.0000 | ug/L  | -1 |     | 10 |       |
| Copper     |       | 100.0000 | 98.40000 | ug/L  | -2 |     | 10 |       |
| Iron       |       | 500.0000 | 546.4000 | ug/L  | 9  |     | 10 |       |
| Lead       |       | 250.0000 | 253.0000 | ug/L  | 1  |     | 10 |       |
| Magnesium  |       | 1000.000 | 1075.000 | ug/L  | 8  |     | 10 |       |
| Manganese  |       | 50.00000 | 49.30000 | ug/L  | -1 |     | 10 |       |
| Molybdenum |       | 500.0000 | 498.0000 | ug/L  | 0  |     | 10 |       |
| Nickel     |       | 250.0000 | 245.0000 | ug/L  | -2 |     | 10 |       |
| Selenium   |       | 250.0000 | 251.0000 | ug/L  | 0  |     | 10 |       |
| Silver     |       | 50.00000 | 51.10000 | ug/L  | 2  |     | 10 |       |
| Thallium   |       | 250.0000 | 243.0000 | ug/L  | -3 |     | 10 |       |
| Titanium   |       | 500.0000 | 524.0000 | ug/L  | 5  |     | 10 |       |
| Vanadium   |       | 250.0000 | 250.0000 | ug/L  | 0  |     | 10 |       |
| Zinc       |       | 50.00000 | 52.90000 | ug/L  | 6  |     | 10 |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537044

Run Name :  
Filename : tr255225

IDF : 1.0  
Injected : 18-NOV-2004 12:28  
Caltpe :

Standards: 04WS2007

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D Max | %D Flags |
|------------|-------|----------|----------|-------|--------|----------|
| Aluminum   |       | 750.0000 | 732.7000 | ug/L  | -2     | 10       |
| Antimony   |       | 750.0000 | 745.0000 | ug/L  | -1     | 10       |
| Arsenic    |       | 375.0000 | 362.0000 | ug/L  | -3     | 10       |
| Barium     |       | 750.0000 | 726.0000 | ug/L  | -3     | 10       |
| Beryllium  |       | 75.00000 | 72.80000 | ug/L  | -3     | 10       |
| Cadmium    |       | 75.00000 | 73.40000 | ug/L  | -2     | 10       |
| Calcium    |       | 1500.000 | 1455.000 | ug/L  | -3     | 10       |
| Chromium   |       | 150.0000 | 147.0000 | ug/L  | -2     | 10       |
| Cobalt     |       | 375.0000 | 357.0000 | ug/L  | -5     | 10       |
| Copper     |       | 150.0000 | 145.0000 | ug/L  | -3     | 10       |
| Iron       |       | 750.0000 | 728.9000 | ug/L  | -3     | 10       |
| Lead       |       | 375.0000 | 368.0000 | ug/L  | -2     | 10       |
| Magnesium  |       | 1500.000 | 1461.000 | ug/L  | -3     | 10       |
| Manganese  |       | 75.00000 | 71.40000 | ug/L  | -5     | 10       |
| Molybdenum |       | 750.0000 | 743.0000 | ug/L  | -1     | 10       |
| Nickel     |       | 375.0000 | 363.0000 | ug/L  | -3     | 10       |
| Selenium   |       | 375.0000 | 365.0000 | ug/L  | -3     | 10       |
| Silver     |       | 75.00000 | 73.30000 | ug/L  | -2     | 10       |
| Thallium   |       | 375.0000 | 356.0000 | ug/L  | -5     | 10       |
| Titanium   |       | 750.0000 | 749.0000 | ug/L  | 0      | 10       |
| Vanadium   |       | 375.0000 | 361.0000 | ug/L  | -4     | 10       |
| Zinc       |       | 75.00000 | 71.20000 | ug/L  | -5     | 10       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537056

Run Name :  
Filename : tr255237

IDF : 1.0  
Injected : 18-NOV-2004 13:29  
Caltpe :

Standards: 04WS2067

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|-------|----------|----------|-------|----|-----|----|-------|
| Aluminum   |       | 500.0000 | 499.7000 | ug/L  | 0  |     | 10 |       |
| Antimony   |       | 500.0000 | 496.0000 | ug/L  | -1 |     | 10 |       |
| Arsenic    |       | 250.0000 | 251.0000 | ug/L  | 0  |     | 10 |       |
| Barium     |       | 500.0000 | 500.0000 | ug/L  | 0  |     | 10 |       |
| Beryllium  |       | 50.00000 | 49.70000 | ug/L  | -1 |     | 10 |       |
| Cadmium    |       | 50.00000 | 52.20000 | ug/L  | 4  |     | 10 |       |
| Calcium    |       | 1000.000 | 993.5000 | ug/L  | -1 |     | 10 |       |
| Chromium   |       | 100.0000 | 101.0000 | ug/L  | 1  |     | 10 |       |
| Cobalt     |       | 250.0000 | 247.0000 | ug/L  | -1 |     | 10 |       |
| Copper     |       | 100.0000 | 96.60000 | ug/L  | -3 |     | 10 |       |
| Iron       |       | 500.0000 | 535.3000 | ug/L  | 7  |     | 10 |       |
| Lead       |       | 250.0000 | 253.0000 | ug/L  | 1  |     | 10 |       |
| Magnesium  |       | 1000.000 | 1024.000 | ug/L  | 2  |     | 10 |       |
| Manganese  |       | 50.00000 | 52.20000 | ug/L  | 4  |     | 10 |       |
| Molybdenum |       | 500.0000 | 499.0000 | ug/L  | 0  |     | 10 |       |
| Nickel     |       | 250.0000 | 255.0000 | ug/L  | 2  |     | 10 |       |
| Selenium   |       | 250.0000 | 248.0000 | ug/L  | -1 |     | 10 |       |
| Silver     |       | 50.00000 | 51.00000 | ug/L  | 2  |     | 10 |       |
| Thallium   |       | 250.0000 | 247.0000 | ug/L  | -1 |     | 10 |       |
| Titanium   |       | 500.0000 | 516.0000 | ug/L  | 3  |     | 10 |       |
| Vanadium   |       | 250.0000 | 247.0000 | ug/L  | -1 |     | 10 |       |
| Zinc       |       | 50.00000 | 52.60000 | ug/L  | 5  |     | 10 |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537068

Run Name :  
Filename : tr255249

IDF : 1.0  
Injected : 18-NOV-2004 14:29  
Caltype :

Standards: 04WS2007

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|-------|----------|----------|-------|----|-----|----|-------|
| Aluminum   |       | 750.0000 | 733.1000 | ug/L  | -2 |     | 10 |       |
| Antimony   |       | 750.0000 | 743.0000 | ug/L  | -1 |     | 10 |       |
| Arsenic    |       | 375.0000 | 379.0000 | ug/L  | 1  |     | 10 |       |
| Barium     |       | 750.0000 | 744.0000 | ug/L  | -1 |     | 10 |       |
| Beryllium  |       | 75.00000 | 73.20000 | ug/L  | -2 |     | 10 |       |
| Cadmium    |       | 75.00000 | 78.30000 | ug/L  | 4  |     | 10 |       |
| Calcium    |       | 1500.000 | 1434.000 | ug/L  | -4 |     | 10 |       |
| Chromium   |       | 150.0000 | 149.0000 | ug/L  | -1 |     | 10 |       |
| Cobalt     |       | 375.0000 | 365.0000 | ug/L  | -3 |     | 10 |       |
| Copper     |       | 150.0000 | 140.0000 | ug/L  | -7 |     | 10 |       |
| Iron       |       | 750.0000 | 751.7000 | ug/L  | 0  |     | 10 |       |
| Lead       |       | 375.0000 | 379.0000 | ug/L  | 1  |     | 10 |       |
| Magnesium  |       | 1500.000 | 1509.000 | ug/L  | 1  |     | 10 |       |
| Manganese  |       | 75.00000 | 71.50000 | ug/L  | -5 |     | 10 |       |
| Molybdenum |       | 750.0000 | 750.0000 | ug/L  | 0  |     | 10 |       |
| Nickel     |       | 375.0000 | 379.0000 | ug/L  | 1  |     | 10 |       |
| Selenium   |       | 375.0000 | 378.0000 | ug/L  | 1  |     | 10 |       |
| Silver     |       | 75.00000 | 72.50000 | ug/L  | -3 |     | 10 |       |
| Thallium   |       | 375.0000 | 373.0000 | ug/L  | -1 |     | 10 |       |
| Titanium   |       | 750.0000 | 756.0000 | ug/L  | 1  |     | 10 |       |
| Vanadium   |       | 375.0000 | 362.0000 | ug/L  | -3 |     | 10 |       |
| Zinc       |       | 75.00000 | 74.70000 | ug/L  | 0  |     | 10 |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537080

Run Name :  
Filename : tr255261

IDF : 1.0  
Injected : 18-NOV-2004 15:51  
Caltpe :

Standards: 04WS2067

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|-------|----------|----------|-------|----|-----|----|-------|
| Aluminum   |       | 500.0000 | 523.6000 | ug/L  | 5  |     | 10 |       |
| Antimony   |       | 500.0000 | 512.0000 | ug/L  | 2  |     | 10 |       |
| Arsenic    |       | 250.0000 | 259.0000 | ug/L  | 4  |     | 10 |       |
| Barium     |       | 500.0000 | 514.0000 | ug/L  | 3  |     | 10 |       |
| Beryllium  |       | 50.00000 | 50.00000 | ug/L  | 0  |     | 10 |       |
| Cadmium    |       | 50.00000 | 54.60000 | ug/L  | 9  |     | 10 |       |
| Calcium    |       | 1000.000 | 943.3000 | ug/L  | -6 |     | 10 |       |
| Chromium   |       | 100.0000 | 102.0000 | ug/L  | 2  |     | 10 |       |
| Cobalt     |       | 250.0000 | 249.0000 | ug/L  | 0  |     | 10 |       |
| Copper     |       | 100.0000 | 94.50000 | ug/L  | -6 |     | 10 |       |
| Iron       |       | 500.0000 | 508.4000 | ug/L  | 2  |     | 10 |       |
| Lead       |       | 250.0000 | 256.0000 | ug/L  | 2  |     | 10 |       |
| Magnesium  |       | 1000.000 | 1013.000 | ug/L  | 1  |     | 10 |       |
| Manganese  |       | 50.00000 | 47.80000 | ug/L  | -4 |     | 10 |       |
| Molybdenum |       | 500.0000 | 501.0000 | ug/L  | 0  |     | 10 |       |
| Nickel     |       | 250.0000 | 264.0000 | ug/L  | 6  |     | 10 |       |
| Selenium   |       | 250.0000 | 253.0000 | ug/L  | 1  |     | 10 |       |
| Silver     |       | 50.00000 | 50.50000 | ug/L  | 1  |     | 10 |       |
| Thallium   |       | 250.0000 | 253.0000 | ug/L  | 1  |     | 10 |       |
| Titanium   |       | 500.0000 | 512.0000 | ug/L  | 2  |     | 10 |       |
| Vanadium   |       | 250.0000 | 245.0000 | ug/L  | -2 |     | 10 |       |
| Zinc       |       | 50.00000 | 51.60000 | ug/L  | 3  |     | 10 |       |



INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74465537003  
Filename: tr255182

TJA Trace ICP  
Run Name:  
Run Type: ICB

Injected: 18-NOV-2004 07:13

| Analyte    | Quant    | Amt      | RL | Units | Req | Flags |
|------------|----------|----------|----|-------|-----|-------|
| Aluminum   | ND       | 100.0000 |    | ug/L  | <RL |       |
| Antimony   | ND       | 60.00000 |    | ug/L  | <RL |       |
| Arsenic    | ND       | 5.000000 |    | ug/L  | <RL |       |
| Barium     | ND       | 10.00000 |    | ug/L  | <RL |       |
| Beryllium  | ND       | 2.000000 |    | ug/L  | <RL |       |
| Cadmium    | ND       | 5.000000 |    | ug/L  | <RL |       |
| Calcium    | ND       | 500.0000 |    | ug/L  | <RL |       |
| Chromium   | ND       | 10.00000 |    | ug/L  | <RL |       |
| Cobalt     | ND       | 10.00000 |    | ug/L  | <RL |       |
| Copper     | ND       | 10.00000 |    | ug/L  | <RL |       |
| Iron       | [11.730] | 100.0000 |    | ug/L  | <RL |       |
| Lead       | ND       | 3.000000 |    | ug/L  | <RL |       |
| Magnesium  | ND       | 500.0000 |    | ug/L  | <RL |       |
| Manganese  | ND       | 10.00000 |    | ug/L  | <RL |       |
| Molybdenum | ND       | 20.00000 |    | ug/L  | <RL |       |
| Nickel     | ND       | 20.00000 |    | ug/L  | <RL |       |
| Selenium   | ND       | 5.000000 |    | ug/L  | <RL |       |
| Silver     | ND       | 5.000000 |    | ug/L  | <RL |       |
| Thallium   | [4.9200] | 5.000000 |    | ug/L  | <RL |       |
| Titanium   | [2.8000] | 10.00000 |    | ug/L  | <RL |       |
| Vanadium   | ND       | 10.00000 |    | ug/L  | <RL |       |
| Zinc       | ND       | 20.00000 |    | ug/L  | <RL |       |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07      TJA Trace ICP  
Seqnum: 74465537013      Run Name:  
Filename: tr255192      Run Type: CCB

Injected: 18-NOV-2004 08:37

| Analyte    | QuantAmt | RL       | Units | Req | Flags |
|------------|----------|----------|-------|-----|-------|
| Aluminum   | ND       | 100.0000 | ug/L  | <RL |       |
| Antimony   | ND       | 60.00000 | ug/L  | <RL |       |
| Arsenic    | ND       | 5.000000 | ug/L  | <RL |       |
| Barium     | ND       | 10.00000 | ug/L  | <RL |       |
| Beryllium  | [0.4160] | 2.000000 | ug/L  | <RL |       |
| Cadmium    | ND       | 5.000000 | ug/L  | <RL |       |
| Calcium    | [51.080] | 500.0000 | ug/L  | <RL |       |
| Chromium   | ND       | 10.00000 | ug/L  | <RL |       |
| Cobalt     | ND       | 10.00000 | ug/L  | <RL |       |
| Copper     | ND       | 10.00000 | ug/L  | <RL |       |
| Iron       | [12.220] | 100.0000 | ug/L  | <RL |       |
| Lead       | ND       | 3.000000 | ug/L  | <RL |       |
| Magnesium  | [8.8010] | 500.0000 | ug/L  | <RL |       |
| Manganese  | ND       | 10.00000 | ug/L  | <RL |       |
| Molybdenum | [6.1300] | 20.00000 | ug/L  | <RL |       |
| Nickel     | ND       | 20.00000 | ug/L  | <RL |       |
| Selenium   | ND       | 5.000000 | ug/L  | <RL |       |
| Silver     | ND       | 5.000000 | ug/L  | <RL |       |
| Thallium   | ND       | 5.000000 | ug/L  | <RL |       |
| Titanium   | [5.2100] | 10.00000 | ug/L  | <RL |       |
| Vanadium   | ND       | 10.00000 | ug/L  | <RL |       |
| Zinc       | ND       | 20.00000 | ug/L  | <RL |       |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74465537025  
Filename: tr255205

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 18-NOV-2004 09:38

| Analyte    | QuantAmt | RL       | Units | Req | Flags |
|------------|----------|----------|-------|-----|-------|
| Aluminum   | ND       | 100.0000 | ug/L  | <RL |       |
| Antimony   | ND       | 60.00000 | ug/L  | <RL |       |
| Arsenic    | ND       | 5.000000 | ug/L  | <RL |       |
| Barium     | ND       | 10.00000 | ug/L  | <RL |       |
| Beryllium  | ND       | 2.000000 | ug/L  | <RL |       |
| Cadmium    | ND       | 5.000000 | ug/L  | <RL |       |
| Calcium    | [54.370] | 500.0000 | ug/L  | <RL |       |
| Chromium   | ND       | 10.00000 | ug/L  | <RL |       |
| Cobalt     | ND       | 10.00000 | ug/L  | <RL |       |
| Copper     | [3.9900] | 10.00000 | ug/L  | <RL |       |
| Iron       | [11.290] | 100.0000 | ug/L  | <RL |       |
| Lead       | ND       | 3.000000 | ug/L  | <RL |       |
| Magnesium  | [28.520] | 500.0000 | ug/L  | <RL |       |
| Manganese  | [0.8290] | 10.00000 | ug/L  | <RL |       |
| Molybdenum | [3.0500] | 20.00000 | ug/L  | <RL |       |
| Nickel     | ND       | 20.00000 | ug/L  | <RL |       |
| Selenium   | ND       | 5.000000 | ug/L  | <RL |       |
| Silver     | ND       | 5.000000 | ug/L  | <RL |       |
| Thallium   | [4.7300] | 5.000000 | ug/L  | <RL |       |
| Titanium   | [9.3300] | 10.00000 | ug/L  | <RL |       |
| Vanadium   | ND       | 10.00000 | ug/L  | <RL |       |
| Zinc       | ND       | 20.00000 | ug/L  | <RL |       |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74465537037  
Filename: tr255217

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 18-NOV-2004 10:35

| Analyte    | Quant    | Amt | RL       | Units | Req | Flags  |
|------------|----------|-----|----------|-------|-----|--------|
| Aluminum   | ND       |     | 100.0000 | ug/L  | <RL |        |
| Antimony   | ND       |     | 60.00000 | ug/L  | <RL |        |
| Arsenic    | ND       |     | 5.000000 | ug/L  | <RL |        |
| Barium     | ND       |     | 10.00000 | ug/L  | <RL |        |
| Beryllium  | [0.5720] |     | 2.000000 | ug/L  | <RL |        |
| Cadmium    | ND       |     | 5.000000 | ug/L  | <RL |        |
| Calcium    | [34.400] |     | 500.0000 | ug/L  | <RL |        |
| Chromium   | ND       |     | 10.00000 | ug/L  | <RL |        |
| Cobalt     | ND       |     | 10.00000 | ug/L  | <RL |        |
| Copper     | [3.1800] |     | 10.00000 | ug/L  | <RL |        |
| Iron       | [12.330] |     | 100.0000 | ug/L  | <RL |        |
| Lead       | ND       |     | 3.000000 | ug/L  | <RL |        |
| Magnesium  | ND       |     | 500.0000 | ug/L  | <RL |        |
| Manganese  | ND       |     | 10.00000 | ug/L  | <RL |        |
| Molybdenum | ND       |     | 20.00000 | ug/L  | <RL |        |
| Nickel     | ND       |     | 20.00000 | ug/L  | <RL |        |
| Selenium   | ND       |     | 5.000000 | ug/L  | <RL |        |
| Silver     | ND       |     | 5.000000 | ug/L  | <RL |        |
| Thallium   | ND       |     | 5.000000 | ug/L  | <RL |        |
| Titanium   | 10.80000 |     | 10.00000 | ug/L  | <RL | ib *** |
| Vanadium   | ND       |     | 10.00000 | ug/L  | <RL |        |
| Zinc       | [5.1800] |     | 20.00000 | ug/L  | <RL |        |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74465537045  
Filename: tr255226

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 18-NOV-2004 12:32

| Analyte    | Quant    | Amt      | RL   | Units | Req | Flags |
|------------|----------|----------|------|-------|-----|-------|
| Aluminum   | [92.980] | 100.0000 | ug/L | <RL   |     |       |
| Antimony   | ND       | 60.00000 | ug/L | <RL   |     |       |
| Arsenic    | [3.5700] | 5.000000 | ug/L | <RL   |     |       |
| Barium     | ND       | 10.00000 | ug/L | <RL   |     |       |
| Beryllium  | [1.1200] | 2.000000 | ug/L | <RL   |     |       |
| Cadmium    | ND       | 5.000000 | ug/L | <RL   |     |       |
| Calcium    | [16.320] | 500.0000 | ug/L | <RL   |     |       |
| Chromium   | ND       | 10.00000 | ug/L | <RL   |     |       |
| Cobalt     | ND       | 10.00000 | ug/L | <RL   |     |       |
| Copper     | ND       | 10.00000 | ug/L | <RL   |     |       |
| Iron       | [17.080] | 100.0000 | ug/L | <RL   |     |       |
| Lead       | ND       | 3.000000 | ug/L | <RL   |     |       |
| Magnesium  | ND       | 500.0000 | ug/L | <RL   |     |       |
| Manganese  | ND       | 10.00000 | ug/L | <RL   |     |       |
| Molybdenum | [3.5700] | 20.00000 | ug/L | <RL   |     |       |
| Nickel     | ND       | 20.00000 | ug/L | <RL   |     |       |
| Selenium   | ND       | 5.000000 | ug/L | <RL   |     |       |
| Silver     | ND       | 5.000000 | ug/L | <RL   |     |       |
| Thallium   | [4.1200] | 5.000000 | ug/L | <RL   |     |       |
| Titanium   | [7.8400] | 10.00000 | ug/L | <RL   |     |       |
| Vanadium   | ND       | 10.00000 | ug/L | <RL   |     |       |
| Zinc       | ND       | 20.00000 | ug/L | <RL   |     |       |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74465537057  
Filename: tr255238

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 18-NOV-2004 13:36

| Analyte    | Quant    | Amt | RL       | Units | Req | Flags  |
|------------|----------|-----|----------|-------|-----|--------|
| Aluminum   | ND       |     | 100.0000 | ug/L  | <RL |        |
| Antimony   | ND       |     | 60.00000 | ug/L  | <RL |        |
| Arsenic    | ND       |     | 5.000000 | ug/L  | <RL |        |
| Barium     | ND       |     | 10.00000 | ug/L  | <RL |        |
| Beryllium  | ND       |     | 2.000000 | ug/L  | <RL |        |
| Cadmium    | ND       |     | 5.000000 | ug/L  | <RL |        |
| Calcium    | ND       |     | 500.0000 | ug/L  | <RL |        |
| Chromium   | ND       |     | 10.00000 | ug/L  | <RL |        |
| Cobalt     | ND       |     | 10.00000 | ug/L  | <RL |        |
| Copper     | ND       |     | 10.00000 | ug/L  | <RL |        |
| Iron       | ND       |     | 100.0000 | ug/L  | <RL |        |
| Lead       | ND       |     | 3.000000 | ug/L  | <RL |        |
| Magnesium  | [11.240] |     | 500.0000 | ug/L  | <RL |        |
| Manganese  | [1.3200] |     | 10.00000 | ug/L  | <RL |        |
| Molybdenum | ND       |     | 20.00000 | ug/L  | <RL |        |
| Nickel     | ND       |     | 20.00000 | ug/L  | <RL |        |
| Selenium   | ND       |     | 5.000000 | ug/L  | <RL |        |
| Silver     | ND       |     | 5.000000 | ug/L  | <RL |        |
| Thallium   | ND       |     | 5.000000 | ug/L  | <RL |        |
| Titanium   | 12.50000 |     | 10.00000 | ug/L  | <RL | ib *** |
| Vanadium   | ND       |     | 10.00000 | ug/L  | <RL |        |
| Zinc       | [5.7900] |     | 20.00000 | ug/L  | <RL |        |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74465537069  
Filename: tr255250

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 18-NOV-2004 14:39

| Analyte    | QuantAmt | RL       | Units | Req | Flags |
|------------|----------|----------|-------|-----|-------|
| Aluminum   | ND       | 100.0000 | ug/L  | <RL |       |
| Antimony   | ND       | 60.00000 | ug/L  | <RL |       |
| Arsenic    | [3.8900] | 5.000000 | ug/L  | <RL |       |
| Barium     | ND       | 10.00000 | ug/L  | <RL |       |
| Beryllium  | ND       | 2.000000 | ug/L  | <RL |       |
| Cadmium    | ND       | 5.000000 | ug/L  | <RL |       |
| Calcium    | ND       | 500.0000 | ug/L  | <RL |       |
| Chromium   | ND       | 10.00000 | ug/L  | <RL |       |
| Cobalt     | ND       | 10.00000 | ug/L  | <RL |       |
| Copper     | ND       | 10.00000 | ug/L  | <RL |       |
| Iron       | ND       | 100.0000 | ug/L  | <RL |       |
| Lead       | ND       | 3.000000 | ug/L  | <RL |       |
| Magnesium  | ND       | 500.0000 | ug/L  | <RL |       |
| Manganese  | ND       | 10.00000 | ug/L  | <RL |       |
| Molybdenum | ND       | 20.00000 | ug/L  | <RL |       |
| Nickel     | ND       | 20.00000 | ug/L  | <RL |       |
| Selenium   | ND       | 5.000000 | ug/L  | <RL |       |
| Silver     | ND       | 5.000000 | ug/L  | <RL |       |
| Thallium   | ND       | 5.000000 | ug/L  | <RL |       |
| Titanium   | ND       | 10.00000 | ug/L  | <RL |       |
| Vanadium   | ND       | 10.00000 | ug/L  | <RL |       |
| Zinc       | ND       | 20.00000 | ug/L  | <RL |       |



INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74465537081  
Filename: tr255262

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 18-NOV-2004 15:56

| Analyte    | Quant    | Amt | RL       | Units | Reg | Flags |
|------------|----------|-----|----------|-------|-----|-------|
| Aluminum   | ND       |     | 100.0000 | ug/L  | <   | RL    |
| Antimony   | ND       |     | 60.00000 | ug/L  | <   | RL    |
| Arsenic    | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Barium     | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Beryllium  | [0.6120] |     | 2.000000 | ug/L  | <   | RL    |
| Cadmium    | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Calcium    | ND       |     | 500.0000 | ug/L  | <   | RL    |
| Chromium   | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Cobalt     | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Copper     | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Iron       | ND       |     | 100.0000 | ug/L  | <   | RL    |
| Lead       | ND       |     | 3.000000 | ug/L  | <   | RL    |
| Magnesium  | [8.9380] |     | 500.0000 | ug/L  | <   | RL    |
| Manganese  | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Molybdenum | [3.6300] |     | 20.00000 | ug/L  | <   | RL    |
| Nickel     | ND       |     | 20.00000 | ug/L  | <   | RL    |
| Selenium   | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Silver     | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Thallium   | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Titanium   | [0.4310] |     | 10.00000 | ug/L  | <   | RL    |
| Vanadium   | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Zinc       | ND       |     | 20.00000 | ug/L  | <   | RL    |

INTERFERENCE CHECK STANDARD A  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74465537005  
Filename: tr255184

TJA Trace ICP  
Run Name:  
Run Type: ICSA

Injected: 18-NOV-2004 07:44

| Analyte    | QuantAmt | RL       | Units | Req | Flags  |
|------------|----------|----------|-------|-----|--------|
| Antimony   | [4.5100] | 60.00000 | ug/L  | <RL |        |
| Arsenic    | 5.350000 | 5.000000 | ug/L  | <RL |        |
| Barium     | [-0.205] | 10.00000 | ug/L  | <RL |        |
| Beryllium  | [-1.010] | 2.000000 | ug/L  | <RL |        |
| Cadmium    | [2.9600] | 5.000000 | ug/L  | <RL |        |
| Chromium   | [2.6200] | 10.00000 | ug/L  | <RL |        |
| Cobalt     | [0.5780] | 10.00000 | ug/L  | <RL |        |
| Copper     | [-1.760] | 10.00000 | ug/L  | <RL |        |
| Lead       | [0.4780] | 3.000000 | ug/L  | <RL |        |
| Manganese  | [2.0400] | 10.00000 | ug/L  | <RL |        |
| Molybdenum | [-0.880] | 20.00000 | ug/L  | <RL |        |
| Nickel     | [1.1100] | 20.00000 | ug/L  | <RL |        |
| Selenium   | [-0.647] | 5.000000 | ug/L  | <RL |        |
| Silver     | [-1.130] | 5.000000 | ug/L  | <RL |        |
| Thallium   | [2.2100] | 5.000000 | ug/L  | <RL |        |
| Titanium   | 31.20000 | 10.00000 | ug/L  | <RL | a+ *** |
| Vanadium   | [-1.110] | 10.00000 | ug/L  | <RL |        |
| Zinc       | [2.3300] | 20.00000 | ug/L  | <RL |        |

SPIKED INTERFERENTS

| Analyte   | SpikeAmt | QuantAmt | Units | %REC |
|-----------|----------|----------|-------|------|
| Aluminum  | 500000   | 484100   | ug/L  | 97   |
| Calcium   | 500000   | 482800.  | ug/L  | 97   |
| Iron      | 200000   | 179600   | ug/L  | 90   |
| Magnesium | 500000   | 517600   | ug/L  | 104  |

INTERFERENCE CHECK STANDARD AB  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537006

Run Name :  
Filename : tr255185

Injected : 18-NOV-2004 07:51  
Caltpe :

Standards: 04WS1841

| Analyte    | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|----------|----------|-------|----|-----|----|-------|
| Aluminum   | 500000.0 | 545600.0 | ug/L  | 9  |     |    |       |
| Antimony   | 500.0000 | 557.0000 | ug/L  | 11 | 20  |    |       |
| Arsenic    | 500.0000 | 551.0000 | ug/L  | 10 | 20  |    |       |
| Barium     | 500.0000 | 504.0000 | ug/L  | 1  | 20  |    |       |
| Beryllium  | 500.0000 | 541.0000 | ug/L  | 8  | 20  |    |       |
| Cadmium    | 1000.000 | 966.0000 | ug/L  | -3 | 20  |    |       |
| Calcium    | 500000.0 | 542300.0 | ug/L  | 8  |     |    |       |
| Chromium   | 500.0000 | 521.0000 | ug/L  | 4  | 20  |    |       |
| Cobalt     | 500.0000 | 526.0000 | ug/L  | 5  | 20  |    |       |
| Copper     | 500.0000 | 549.0000 | ug/L  | 10 | 20  |    |       |
| Iron       | 200000.0 | 201100.0 | ug/L  | 1  |     |    |       |
| Lead       | 1000.000 | 1060.000 | ug/L  | 6  | 20  |    |       |
| Magnesium  | 500000.0 | 581300.0 | ug/L  | 16 |     |    |       |
| Manganese  | 500.0000 | 522.0000 | ug/L  | 4  | 20  |    |       |
| Molybdenum | 500.0000 | 551.0000 | ug/L  | 10 | 20  |    |       |
| Nickel     | 1000.000 | 973.0000 | ug/L  | -3 | 20  |    |       |
| Selenium   | 500.0000 | 539.0000 | ug/L  | 8  | 20  |    |       |
| Silver     | 1000.000 | 973.0000 | ug/L  | -3 | 20  |    |       |
| Thallium   | 500.0000 | 519.0000 | ug/L  | 4  | 20  |    |       |
| Titanium   | 20000.00 | 22600.00 | ug/L  | 13 |     |    |       |
| Vanadium   | 500.0000 | 530.0000 | ug/L  | 6  | 20  |    |       |
| Zinc       | 1000.000 | 1030.000 | ug/L  | 3  | 20  |    |       |

INTERFERENCE CHECK STANDARD AB  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74465537082

Run Name :  
Filename : tr255263

Injected : 18-NOV-2004 16:00  
Caltpe :

Standards: 04WS1841

| Analyte    | SpkAmt   | QuantAmt | Units | %D  | Max | %D | Flags |
|------------|----------|----------|-------|-----|-----|----|-------|
| Aluminum   | 500000.0 | 533200.0 | ug/L  | 7   |     |    |       |
| Antimony   | 500.0000 | 549.0000 | ug/L  | 10  |     | 20 |       |
| Arsenic    | 500.0000 | 554.0000 | ug/L  | 11  |     | 20 |       |
| Barium     | 500.0000 | 526.0000 | ug/L  | 5   |     | 20 |       |
| Beryllium  | 500.0000 | 493.0000 | ug/L  | -1  |     | 20 |       |
| Cadmium    | 1000.000 | 1040.000 | ug/L  | 4   |     | 20 |       |
| Calcium    | 500000.0 | 460700.0 | ug/L  | -8  |     |    |       |
| Chromium   | 500.0000 | 499.0000 | ug/L  | 0   |     | 20 |       |
| Cobalt     | 500.0000 | 496.0000 | ug/L  | -1  |     | 20 |       |
| Copper     | 500.0000 | 495.0000 | ug/L  | -1  |     | 20 |       |
| Iron       | 200000.0 | 193500.0 | ug/L  | -3  |     |    |       |
| Lead       | 1000.000 | 1040.000 | ug/L  | 4   |     | 20 |       |
| Magnesium  | 500000.0 | 548500.0 | ug/L  | 10  |     |    |       |
| Manganese  | 500.0000 | 473.0000 | ug/L  | -5  |     | 20 |       |
| Molybdenum | 500.0000 | 525.0000 | ug/L  | 5   |     | 20 |       |
| Nickel     | 1000.000 | 1000.000 | ug/L  | 0   |     | 20 |       |
| Selenium   | 500.0000 | 548.0000 | ug/L  | 10  |     | 20 |       |
| Silver     | 1000.000 | 898.0000 | ug/L  | -10 |     | 20 |       |
| Thallium   | 500.0000 | 557.0000 | ug/L  | 11  |     | 20 |       |
| Titanium   | 20000.00 | 21600.00 | ug/L  | 8   |     |    |       |
| Vanadium   | 500.0000 | 497.0000 | ug/L  | -1  |     | 20 |       |
| Zinc       | 1000.000 | 1060.000 | ug/L  | 6   |     | 20 |       |

# SEQUENCE SUMMARY

## Curtis & Tompkins Laboratories

Sequence: 74465537 Instrument: MET07 TJA Trace ICP Begun: 18-NOV-2004  
 Analytical Method: EPA 6010B SOP Version: 6010B\_rv7

| #   | Filename | Type   | Samplenum  | Batch | Matrix | Analyzed    | IDF   | PDF | IOC | SPK | uL | Stds | Used | >LR         |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|-----|-----|----|------|------|-------------|
| 001 | tr255180 | CS     |            |       |        | 18-NOV-2004 | 06:57 | 1.0 |     |     |    | 1    |      |             |
| 002 | tr255181 | ICV    |            |       |        | 18-NOV-2004 | 07:06 | 1.0 |     |     |    | 2    |      |             |
| 003 | tr255182 | ICB    |            |       |        | 18-NOV-2004 | 07:13 | 1.0 |     |     |    |      |      |             |
| 004 | tr255183 | CRI    |            |       |        | 18-NOV-2004 | 07:31 | 1.0 |     |     |    | 3    |      |             |
| 005 | tr255184 | ICSA   |            |       |        | 18-NOV-2004 | 07:44 | 1.0 |     |     |    | 4    |      | 4:MG=517600 |
| 006 | tr255185 | ICSAB  |            |       |        | 18-NOV-2004 | 07:51 | 1.0 |     |     |    | 5    |      | 5:MG=581300 |
| 007 | tr255186 | BLANK  | QC272675   | 96591 | Filtr  | 18-NOV-2004 | 08:01 | 1.0 |     |     |    |      |      |             |
| 008 | tr255187 | BS     | QC272676   | 96591 | Filtr  | 18-NOV-2004 | 08:05 | 1.0 |     |     |    | 1    |      |             |
| 009 | tr255188 | BSD    | QC272677   | 96591 | Filtr  | 18-NOV-2004 | 08:09 | 1.0 |     |     |    | 2    |      |             |
| 010 | tr255189 | MSS    | 176067-004 | 96591 | Filtr  | 18-NOV-2004 | 08:15 | 1.0 |     |     |    | 2    |      |             |
| 011 | tr255190 | MSS    | 176067-004 | 96591 | Filtr  | 18-NOV-2004 | 08:24 | 1.0 |     |     |    | 3    |      | 1:CA=162500 |
| 012 | tr255191 | CCV    |            |       |        | 18-NOV-2004 | 08:30 | 1.0 |     |     |    | 2    |      | 1:CA=164400 |
| 013 | tr255192 | CCB    |            |       |        | 18-NOV-2004 | 08:37 | 1.0 |     |     |    | 1    |      |             |
| 014 | tr255193 | MS     | QC272678   | 96591 | Filtr  | 18-NOV-2004 | 08:45 | 1.0 |     |     |    |      |      | 1:CA=159100 |
| 015 | tr255194 | MSD    | QC272679   | 96591 | Filtr  | 18-NOV-2004 | 08:49 | 1.0 |     |     |    | 2    |      | 1:CA=163500 |
| 016 | tr255196 | MS     | QC272678   | 96591 | Filtr  | 18-NOV-2004 | 08:59 | 1.0 |     |     |    | 2    |      | 1:CA=161700 |
| 017 | tr255197 | MSD    | QC272679   | 96591 | Filtr  | 18-NOV-2004 | 09:03 | 1.0 |     |     |    | 2    |      | 1:CA=158400 |
| 018 | tr255198 | SAMPLE | 176044-001 | 96591 | Filtr  | 18-NOV-2004 | 09:08 | 1.0 |     |     |    |      |      | 1:CA=156000 |
| 019 | tr255199 | SAMPLE | 176071-001 | 96591 | Filtr  | 18-NOV-2004 | 09:12 | 1.0 |     |     |    | 1    |      | 1:MG=127700 |
| 020 | tr255200 | SAMPLE | 176071-001 | 96591 | Filtr  | 18-NOV-2004 | 09:17 | 1.0 |     |     |    |      |      | 1:MG=128900 |
| 021 | tr255201 | SAMPLE | 176071-003 | 96591 | Filtr  | 18-NOV-2004 | 09:21 | 1.0 |     |     |    |      |      | 2:MG=228000 |
| 022 | tr255202 | SAMPLE | 176071-003 | 96591 | Filtr  | 18-NOV-2004 | 09:25 | 1.0 |     |     |    |      |      | 2:MG=221000 |
| 023 | tr255203 | SAMPLE | 176071-005 | 96591 | Filtr  | 18-NOV-2004 | 09:29 | 1.0 |     |     |    | 1    |      | 1:MG=127800 |
| 024 | tr255204 | CCV    |            |       |        | 18-NOV-2004 | 09:34 | 1.0 |     |     |    | 1    |      |             |
| 025 | tr255205 | CCB    |            |       |        | 18-NOV-2004 | 09:38 | 1.0 |     |     |    |      |      |             |
| 026 | tr255206 | SAMPLE | 176071-005 | 96591 | Filtr  | 18-NOV-2004 | 09:43 | 1.0 |     |     |    |      |      | 1:MG=127200 |
| 027 | tr255207 | SAMPLE | 176071-007 | 96591 | Filtr  | 18-NOV-2004 | 09:47 | 1.0 |     |     |    |      |      | 2:MG=149200 |
| 028 | tr255208 | SAMPLE | 176071-007 | 96591 | Filtr  | 18-NOV-2004 | 09:51 | 1.0 |     |     |    |      |      | 2:MG=146100 |
| 029 | tr255209 | SAMPLE | 176093-001 | 96591 | Filtr  | 18-NOV-2004 | 09:55 | 1.0 |     |     |    |      |      | 2:MG=404100 |
| 030 | tr255210 | BS     | QC272646   | 96585 | WET Le | 18-NOV-2004 | 10:00 | 1.0 |     |     |    | 2    |      |             |
| 031 | tr255211 | BSD    | QC272647   | 96585 | WET Le | 18-NOV-2004 | 10:04 | 1.0 |     |     |    | 2    |      |             |

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04WS2067 7=04WS2007 8=04SS171 9=04SS172

Analyst: *X Carlyon* Date: *11/18/04*  
 Page 1 of 3

# SEQUENCE SUMMARY

## Curtis & Tompkins Laboratories

Begun: 18-NOV-2004

Sequence: 74465537 Instrument: MET07 TJA Trace ICP  
 Analytical Method: EPA 6010B SOP Version: 6010B\_rv7

| #   | Filename | Type   | Samplenum  | Batch | Matrix | Analyzed    | IDF   | PDF  | IOC   | SPK | uL | Stds | Used | >LR          |
|-----|----------|--------|------------|-------|--------|-------------|-------|------|-------|-----|----|------|------|--------------|
| 032 | tr255212 | SAMPLE | 176093-001 | 96591 | Filtra | 18-NOV-2004 | 10:09 | 1.0  | 1.0   |     |    |      |      | 2:MG=420700  |
| 033 | tr255213 | BLANK  | QC272645   | 96585 | WET    | 18-NOV-2004 | 10:16 | 10.0 | 5.0   | 1   |    |      |      |              |
| 034 | tr255214 | MSS    | 175970-001 | 96585 | WET    | 18-NOV-2004 | 10:22 | 10.0 | 5.0   | 2   |    |      |      |              |
| 035 | tr255215 | SER    | QC272650   | 96585 | WET    | 18-NOV-2004 | 10:26 | 50.0 | 5.0   | 1   |    |      |      |              |
| 036 | tr255216 | CCV    |            |       |        | 18-NOV-2004 | 10:30 | 1.0  | 1.0   |     |    | 6    |      |              |
| 037 | tr255217 | CCB    |            |       |        | 18-NOV-2004 | 10:35 | 1.0  | 1.0   | 1   |    |      |      |              |
| 038 | tr255218 | SER    | QC272650   | 96585 | WET    | 18-NOV-2004 | 10:39 | 50.0 | 5.0   |     |    |      |      |              |
| 039 | tr255219 | SDUP   | QC272648   | 96585 | WET    | 18-NOV-2004 | 10:43 | 10.0 | 5.0   |     |    |      |      |              |
| 040 | tr255220 | SSPIKE | QC272649   | 96585 | WET    | 18-NOV-2004 | 10:47 | 10.0 | 5.0   |     |    |      |      |              |
| 041 | tr255221 | SAMPLE | 175973-001 | 96585 | WET    | 18-NOV-2004 | 10:52 | 10.0 | 5.0   |     |    |      |      |              |
| 042 | tr255222 | SAMPLE | 175977-007 | 96585 | WET    | 18-NOV-2004 | 10:56 | 10.0 | 5.0   |     |    |      |      |              |
| 043 | tr255223 | BLANK  | QC272742   | 96610 | Soil   | 18-NOV-2004 | 11:04 | 1.0  | 50.0  | 1   |    |      |      |              |
| 044 | tr255225 | CCV    |            |       |        | 18-NOV-2004 | 12:28 | 1.0  | 1.0   |     |    | 7    |      |              |
| 045 | tr255226 | CCB    |            |       |        | 18-NOV-2004 | 12:32 | 1.0  | 1.0   |     |    |      |      |              |
| 046 | tr255227 | BS     | QC272743   | 96610 | Soil   | 18-NOV-2004 | 12:37 | 1.0  | 50.0  | 1   |    |      |      |              |
| 047 | tr255228 | BSD    | QC272744   | 96610 | Soil   | 18-NOV-2004 | 12:41 | 1.0  | 50.0  | 1   |    |      |      |              |
| 048 | tr255229 | MSS    | 176109-002 | 96610 | Soil   | 18-NOV-2004 | 12:46 | 1.0  | 54.35 | 2   |    |      |      | 2:FE=261000  |
| 049 | tr255230 | SER    | QC272747   | 96610 | Soil   | 18-NOV-2004 | 12:51 | 5.0  | 54.35 |     |    |      |      |              |
| 050 | tr255231 | MSS    | 176109-002 | 96610 | Soil   | 18-NOV-2004 | 12:56 | 5.0  | 54.35 | 2   |    |      |      |              |
| 051 | tr255232 | PDS    | QC272766   | 96610 | Soil   | 18-NOV-2004 | 13:00 | 1.0  | 54.35 |     |    |      |      |              |
| 052 | tr255233 | MS     | QC272745   | 96610 | Soil   | 18-NOV-2004 | 13:04 | 1.0  | 46.73 |     |    |      |      |              |
| 053 | tr255234 | MSD    | QC272746   | 96610 | Soil   | 18-NOV-2004 | 13:08 | 1.0  | 52.08 |     |    |      |      |              |
| 054 | tr255235 | SAMPLE | 176111-005 | 96610 | Soil   | 18-NOV-2004 | 13:14 | 1.0  | 36.50 | 2   |    |      |      |              |
| 055 | tr255236 | SAMPLE | 176111-005 | 96610 | Soil   | 18-NOV-2004 | 13:22 | 10.0 | 36.50 |     |    |      |      |              |
| 056 | tr255237 | CCV    |            |       |        | 18-NOV-2004 | 13:29 | 1.0  | 1.0   |     |    | 6    |      |              |
| 057 | tr255238 | CCB    |            |       |        | 18-NOV-2004 | 13:36 | 1.0  | 1.0   | 1   |    |      |      |              |
| 058 | tr255239 | SER    | QC272747   | 96610 | Soil   | 18-NOV-2004 | 13:40 | 25.0 | 54.35 |     |    |      |      |              |
| 059 | tr255240 | SAMPLE | 176109-003 | 96610 | Soil   | 18-NOV-2004 | 13:44 | 1.0  | 49.50 |     |    |      |      | 3:FE=334200  |
| 060 | tr255241 | SAMPLE | 176103-001 | 96610 | Soil   | 18-NOV-2004 | 13:48 | 1.0  | 31.65 |     |    |      |      | 4:CA=1576000 |
| 061 | tr255242 | SAMPLE | 176103-002 | 96610 | Soil   | 18-NOV-2004 | 13:52 | 1.0  | 34.97 |     |    |      |      | 4:FE=538300  |
| 062 | tr255243 | SAMPLE | 176103-003 | 96610 | Soil   | 18-NOV-2004 | 13:56 | 1.0  | 32.47 |     |    |      |      | 5:FE=516700  |

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04WS2067 7=04WS2007 8=04SS171 9=04SS172

Analyst: *K Carlyon* Date: *11/18/04*  
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# SEQUENCE SUMMARY

## Curtis & Tompkins Laboratories

Begun: 18-NOV-2004

Sequence: 74465537 Instrument: MET07 TJA Trace ICP  
 Analytical Method: EPA 6010B SOP Version: 6010B\_rv7

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF   | PDF | IOC   | SPK | uL | Stds | Used | >LR         |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|-------|-----|----|------|------|-------------|
| 063 | tr255244 | SAMPLE | 176085-001 | 96610 | Soil   | 18-NOV-2004 | 14:00 | 1.0 | 53.76 |     |    |      |      | 4:FE=578100 |
| 064 | tr255245 | SAMPLE | 176096-001 | 96610 | Soil   | 18-NOV-2004 | 14:04 | 1.0 | 41.67 |     |    |      |      | 5:CA=971200 |
| 065 | tr255246 | SAMPLE | 176097-005 | 96610 | Soil   | 18-NOV-2004 | 14:08 | 1.0 | 44.25 |     |    |      |      | 4:FE=325200 |
| 066 | tr255247 | SAMPLE | 176105-001 | 96610 | Soil   | 18-NOV-2004 | 14:12 | 1.0 | 49.02 |     |    |      |      | 3:FE=358000 |
| 067 | tr255248 | SAMPLE | 176107-001 | 96610 | Soil   | 18-NOV-2004 | 14:16 | 1.0 | 34.48 |     |    |      |      | 4:FE=353200 |
| 068 | tr255249 | CCV    |            |       |        | 18-NOV-2004 | 14:29 | 1.0 | 1.0   |     |    | 7    |      |             |
| 069 | tr255250 | CCB    |            |       |        | 18-NOV-2004 | 14:39 | 1.0 | 1.0   |     |    |      |      |             |
| 070 | tr255251 | BLANK  | QC272748   | 96611 | Water  | 18-NOV-2004 | 14:59 | 1.0 | 1.0   |     | 2  |      |      |             |
| 071 | tr255252 | BLANK  | QC272748   | 96611 | Water  | 18-NOV-2004 | 15:08 | 1.0 | 1.0   |     | 1  |      |      |             |
| 072 | tr255253 | BS     | QC272749   | 96611 | Water  | 18-NOV-2004 | 15:12 | 1.0 | 1.0   |     | 1  |      |      |             |
| 073 | tr255254 | BSD    | QC272750   | 96611 | Water  | 18-NOV-2004 | 15:16 | 1.0 | 1.0   |     | 1  | 1    |      |             |
| 074 | tr255255 | MSS    | 176105-005 | 96611 | Water  | 18-NOV-2004 | 15:22 | 1.0 | 1.0   |     | 1  |      |      |             |
| 075 | tr255256 | MS     | QC272751   | 96611 | Water  | 18-NOV-2004 | 15:27 | 1.0 | 1.0   |     |    |      |      |             |
| 076 | tr255257 | MSD    | QC272752   | 96611 | Water  | 18-NOV-2004 | 15:31 | 1.0 | 1.0   |     |    |      |      |             |
| 077 | tr255258 | MSS    | 176105-005 | 96611 | Water  | 18-NOV-2004 | 15:38 | 1.0 | 1.0   |     | 1  |      |      |             |
| 078 | tr255259 | SAMPLE | 176109-001 | 96611 | Water  | 18-NOV-2004 | 15:41 | 1.0 | 1.0   |     |    |      |      |             |
| 079 | tr255260 | SAMPLE | 176109-004 | 96611 | Water  | 18-NOV-2004 | 15:46 | 1.0 | 1.0   |     |    |      |      |             |
| 080 | tr255261 | CCV    |            |       |        | 18-NOV-2004 | 15:51 | 1.0 | 1.0   |     |    | 6    |      |             |
| 081 | tr255262 | CCB    |            |       |        | 18-NOV-2004 | 15:56 | 1.0 | 1.0   |     |    |      |      |             |
| 082 | tr255263 | ICSAB  |            |       |        | 18-NOV-2004 | 16:00 | 1.0 | 1.0   |     |    | 5    |      | 5:MG=548500 |

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04WS2067 7=04WS2007 8=04SS171 9=04SS172

Analyst: *K. Carlson* Date: *11/18/04*  
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REPORTING SUMMARY FOR 176111 METALS Soil  
Curtis & Tompkins Laboratories

| Lab ID     | Inst ID | Analyzed       | IDF  | S | A | B | B | C | C | C | C | F | P | M | H | M | N | S | A | T | V | Z |
|------------|---------|----------------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|            |         |                |      | B | S | A | E | D | R | O | U | E | B | N | G | O | I | E | G | L | N |   |
| 176111-005 | MET07   | 11/18/04 13:14 | 1.0  | + | + | + | + | + | + | + | + | + | + |   |   | + | + | + | + | + | + | + |
| 176111-005 | MET07   | 11/18/04 13:22 | 10.0 |   |   |   |   |   |   |   |   | + |   | + |   |   |   |   |   |   |   |   |
| 176111-005 | MET04   | 11/18/04 16:08 | 1.0  |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |
| QC272742   | MET07   | 11/18/04 11:04 | 1.0  | + | + | + | + | + | + | + | + | + | + | + |   | + | + | + | + | + | + | + |
| QC272743   | MET07   | 11/18/04 12:37 | 1.0  | + | + | + | + | + | + | + | + | + | + | + |   | + | + | + | + | + | + | + |
| QC272744   | MET07   | 11/18/04 12:41 | 1.0  | + | + | + | + | + | + | + | + | + | + | + |   | + | + | + | + | + | + | + |
| QC272745   | MET07   | 11/18/04 13:04 | 1.0  | + | + | + | + | + | + | + | + | + | + | + |   | + | + | + | + | + | + | + |
| QC272746   | MET07   | 11/18/04 13:08 | 1.0  | + | + | + | + | + | + | + | + | + | + | + |   | + | + | + | + | + | + | + |
| QC272747   | MET07   | 11/18/04 12:51 | 5.0  | + | + | + | + | + | + | + | + |   | + | + |   | + | + | + | + | + | + | + |
| QC272747   | MET07   | 11/18/04 13:40 | 25.0 |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |
| QC272766   | MET07   | 11/18/04 13:00 | 1.0  | + | + | + | + | + | + | + | + |   | + | + |   | + | + | + | + | + | + | + |
| QC272805   | MET04   | 11/18/04 16:02 | 1.0  |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |
| QC272806   | MET04   | 11/18/04 16:04 | 1.0  |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |
| QC272807   | MET04   | 11/18/04 16:06 | 1.0  |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |
| QC272808   | MET04   | 11/18/04 16:13 | 1.0  |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |
| QC272809   | MET04   | 11/18/04 16:15 | 1.0  |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |

18-NOV-2004 10:04

Curtis & Tompkins Laboratories Sample Preparation Summary

Batch Number : 96610  
 Date Extracted : 18-NOV-2004  
 Extracted by : Victor Vergara  
 Prep Method : 3050B

Analysis : N/A  
 Bgroup : ICAP  
 Units : g  
 Clean-up :

Spike #1 ID : 04SS171  
 Spike #2 ID : 04SS172  
 Spike #3 ID :

| Sample     | Type  | Client                      | Matrix   | Init W/V | Units | Final Vol | Prep D.F. | Clean pH | Sp. 1 Vol | Sp. 2 Vol | Sp. 3 Vol | Analytes           | Clean Method | Comments |
|------------|-------|-----------------------------|----------|----------|-------|-----------|-----------|----------|-----------|-----------|-----------|--------------------|--------------|----------|
| 176085-001 |       | URS Corporation             | Soil     | .93      | g     | 50        | 53.763441 | 1        |           |           |           | T26/ICP            |              |          |
| 176091-001 |       | ConocoPhillips Company      | Miscell. | 1.09     | g     | 50        | 45.871560 | 1        |           |           |           | V                  |              |          |
| 176091-002 |       | ConocoPhillips Company      | Miscell. | 1.61     | g     | 50        | 31.055901 | 1        |           |           |           | V                  |              |          |
| 176091-003 |       | ConocoPhillips Company      | Miscell. | 1.32     | g     | 50        | 37.878788 | 1        |           |           |           | V                  |              |          |
| 176096-001 |       | LFR Levine Fricke           | Soil     | 1.2      | g     | 50        | 41.666667 | 1        |           |           |           | T26/ICP            |              |          |
| 176097-005 |       | Safeway Milk Plant          | Soil     | 1.13     | g     | 50        | 44.247788 | 1        |           |           |           | CD, CR, NI, PB, ZN |              |          |
| 176103-001 |       | CH2M Hill Constructors Inc. | Soil     | 1.58     | g     | 50        | 31.645570 | 1        |           |           |           | PB                 |              |          |
| 176103-002 |       | CH2M Hill Constructors Inc. | Soil     | 1.43     | g     | 50        | 34.965035 | 1        |           |           |           | PB                 |              |          |
| 176103-003 |       | CH2M Hill Constructors Inc. | Soil     | 1.54     | g     | 50        | 32.467532 | 1        |           |           |           | PB                 |              |          |
| 176105-001 |       | Baseline Environmental      | Soil     | 1.02     | g     | 50        | 49.019608 | 1        |           |           |           | AS, PB, SB         |              |          |
| 176107-001 |       | Baseline Environmental      | Soil     | 1.45     | g     | 50        | 34.482759 | 1        |           |           |           | AS, PB, SB         |              |          |
| 176109-002 |       | Presidio Trust              | Soil     | .92      | g     | 50        | 54.347826 | 1        |           |           |           | PB                 |              | mss      |
| 176109-003 |       | Presidio Trust              | Soil     | 1.01     | g     | 50        | 49.504950 | 1        |           |           |           | PB                 |              |          |
| 176111-005 |       | Treadwell & Rollo           | Soil     | 1.37     | g     | 50        | 36.496350 | 1        |           |           |           | TAL/ICP            |              |          |
| QC272742   | BLANK |                             | Soil     | 1        | g     | 50        | 50.000000 | 1        |           |           |           | ICAP               |              |          |
| QC272743   | BS    |                             | Soil     | 1        | g     | 50        | 50.000000 | 1        | .5        | .5        |           | ICAP               |              |          |
| QC272744   | BSD   |                             | Soil     | 1        | g     | 50        | 50.000000 | 1        | .5        | .5        |           | ICAP               |              |          |
| QC272745   | MS    | of 176109-002               | Soil     | 1.07     | g     | 50        | 46.728972 | 1        | .5        | .5        |           | ICAP               |              |          |
| QC272746   | MSD   | of 176109-002               | Soil     | .96      | g     | 50        | 52.083333 | 1        | .5        | .5        |           | ICAP               |              |          |
| QC272747   | SER   | of 176109-002               | Soil     | .92      | g     | 50        | 54.347826 | 1        |           |           |           | ICAP               |              |          |
| QC272766   | PDS   | of 176109-002               | Soil     | .92      | g     | 50        | 54.347826 | 1        |           |           |           | ICAP               |              |          |

Prep Chemist: [Signature]  
 Relinquished By: [Signature]

Reviewed By: [Signature] Date: 11/18/04  
 Received By: [Signature] Date: 11/18/04

LIMS Batch #: 96610  
 Date Digested: 11/17/04  
 Digested by: VV

## Digestion Method

☐ EPA 3050b

☐

BK 2025

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| Sample # and letter                   | Weight of Sample (g) | Final Volume (mL) | Filtered? (y/n) | Comments                 |
|---------------------------------------|----------------------|-------------------|-----------------|--------------------------|
| W1111704<br>B1K-QC 96610 272742       | 50.0                 | Y                 |                 |                          |
| BS 272743                             |                      |                   |                 |                          |
| BSN 772744                            |                      |                   |                 |                          |
| 176109-002 MS A                       | 1.07                 |                   |                 |                          |
| 176109-002 MSD                        | 0.96                 |                   |                 |                          |
| 176085-001                            | 0.93                 |                   |                 | comp 4 cores             |
| 176091-001                            | 1.09                 |                   |                 | comp 3 jars.             |
| 176091-002                            | 1.61                 |                   |                 |                          |
| 176091-003                            | 1.32                 |                   |                 |                          |
| 176096-001                            | 1.20                 |                   |                 |                          |
| 176097-001 <del>cancel</del> A        | 1.08                 |                   |                 |                          |
| 176097-002 <del>cancel</del> W1111704 | 1.06                 |                   |                 |                          |
| 176103-001                            | 1.13                 |                   |                 |                          |
| 176103-002                            | 1.58                 |                   |                 |                          |
| 176103-003                            | 1.43                 |                   |                 |                          |
| 176105-001 A                          | 1.02                 |                   |                 |                          |
| 176107-001 A                          | 1.45                 |                   |                 |                          |
| 176109-002 A                          | 0.92                 |                   |                 | MS                       |
| 176111-003                            | 1.01                 |                   |                 |                          |
| 176111-005                            | 1.37                 |                   |                 | comp 001, 002, 003, 004, |

digestion temperature (90 - 95 degrees C)  
0.5 mL of spike solution was added to all spikes

1:1 HNO<sub>3</sub>  
 concentrated HNO<sub>3</sub>  
 3mL 30% hydrogen peroxide  
 concentrated HCl  
☒ filtered thru' Whatman # 541

Reagent ID or LIMS # Initials / Date

|                 |          |
|-----------------|----------|
| 75C             | W1111704 |
| CH55171*        |          |
| CH55172*        |          |
| A27048-10/504   |          |
| A26032-15 Baker |          |
| 4W13842S-VWR    |          |
| A33046-15 Baker |          |
| E1566057        |          |

W1111704  
 Extraction Chemist / Date

Continued from page 0Continued on page 0

11/18/04  
 Reviewed by / Date

Curtis & Tompkins Laboratories  
MDL Summary for EPA 6010B Soil 3050B

| Analyte    | Units | MET01          | MET07           | MET08 A         | MET08 R        |
|------------|-------|----------------|-----------------|-----------------|----------------|
| Aluminum   | mg/Kg | 07/26/04 1.5   | 07/21/04 0.52   |                 | 09/10/04 1.3   |
| Antimony   | mg/Kg | 07/20/04 1.3   | 07/21/04 0.20   | 09/10/04 0.076  |                |
| Arsenic    | mg/Kg | 07/26/04 2.8   | 07/20/04 0.10   | 09/10/04 0.10   |                |
| Barium     | mg/Kg | 07/27/04 0.098 | 07/21/04 0.013  |                 | 09/10/04 0.033 |
| Beryllium  | mg/Kg | 07/20/04 0.029 | 07/21/04 0.0063 | 09/10/04 0.0056 |                |
| Cadmium    | mg/Kg | 07/20/04 0.14  | 07/21/04 0.028  | 09/10/04 0.0076 |                |
| Calcium    | mg/Kg | 07/26/04 2.8   | 07/21/04 0.58   |                 | 09/10/04 1.5   |
| Chromium   | mg/Kg | 07/20/04 0.29  | 07/21/04 0.033  | 09/10/04 0.013  |                |
| Cobalt     | mg/Kg | 07/20/04 0.39  | 07/21/04 0.076  | 09/10/04 0.0087 |                |
| Copper     | mg/Kg | 07/20/04 0.11  | 07/21/04 0.057  | 09/10/04 0.069  |                |
| Iron       | mg/Kg | 07/20/04 1.5   | 07/21/04 0.80   |                 | 09/10/04 0.33  |
| Lead       | mg/Kg | 07/26/04 7.9   | 07/20/04 0.065  | 09/10/04 0.078  |                |
| Magnesium  | mg/Kg | 07/20/04 1.5   | 07/21/04 0.52   |                 | 09/10/04 1.2   |
| Manganese  | mg/Kg | 07/20/04 0.11  | 07/20/04 0.11   |                 | 09/10/04 0.023 |
| Molybdenum | mg/Kg | 07/20/04 0.43  | 07/21/04 0.062  | 09/10/04 0.032  |                |
| Nickel     | mg/Kg | 07/20/04 0.64  | 07/21/04 0.067  | 09/10/04 0.017  |                |
| Potassium  | mg/Kg | 07/27/04 18    |                 |                 | 09/17/04 3.7   |
| Selenium   | mg/Kg | 07/27/04 8.1   | 07/21/04 0.17   | 09/10/04 0.18   |                |
| Silver     | mg/Kg | 07/26/04 0.18  | 07/21/04 0.098  | 09/10/04 0.032  |                |
| Sodium     | mg/Kg | 07/26/04 2.8   |                 |                 | 09/17/04 3.2   |
| Thallium   | mg/Kg | 07/26/04 9.5   | 07/21/04 0.21   | 09/10/04 0.17   |                |
| Vanadium   | mg/Kg | 07/20/04 0.14  | 07/21/04 0.045  | 09/10/04 0.039  |                |
| Zinc       | mg/Kg | 07/20/04 0.17  | 07/21/04 0.17   |                 | 09/10/04 0.091 |
| Boron      | mg/Kg | 07/27/04 3.1   |                 | 09/17/04 0.32   |                |
| Tin        | mg/Kg | 07/26/04 1.0   |                 | 09/17/04 0.085  |                |
| Titanium   | mg/Kg | 07/26/04 0.099 |                 |                 | 09/17/04 0.068 |

## MOISTURE DATA

# Percent Moisture Summary Report

Batch: 96606  
 Date: 11/18/04  
 Method: CLP SOW 390  
 Analyst: RSM

| Sample        | Tare (g) | Wet (g) | Dry (g) | Percent Solids | Percent Moisture |
|---------------|----------|---------|---------|----------------|------------------|
| 175913-001    | 11.1140  | 18.9296 | 18.7661 | 98             | 2                |
| 175913-002    | 11.0691  | 18.6244 | 16.6594 | 74             | 26               |
| 175913-003    | 11.1597  | 19.7052 | 17.9457 | 79             | 21               |
| 175913-004    | 11.0418  | 18.3546 | 17.3734 | 87             | 13               |
| 175913-005    | 11.1482  | 18.9488 | 16.9865 | 75             | 25               |
| 175913-006    | 11.2075  | 19.3467 | 17.5767 | 78             | 22               |
| 175913-008    | 15.5947  | 22.3194 | 21.0779 | 82             | 18               |
| 175913-009    | 11.1481  | 18.9501 | 17.3826 | 80             | 20               |
| 176103-001    | 10.9941  | 18.5082 | 17.0773 | 81             | 19               |
| 176103-002    | 15.3139  | 22.3124 | 20.8707 | 79             | 21               |
| 176103-003    | 15.4126  | 22.7311 | 21.4771 | 83             | 17               |
| 176109-002    | 11.1233  | 18.9643 | 18.4208 | 93             | 7                |
| 176109-003    | 11.0929  | 18.7151 | 18.2125 | 93             | 7                |
| 176111-005    | 11.1093  | 19.2007 | 18.5239 | 92             | 8                |
| QC272729      | 11.6763  | 18.6105 | 17.3351 | 82             | 18               |
| of 176103-001 |          |         | RPD:    | 0.8%           | 3.5%             |

# Curtis & Tompkins Laboratories    Sample Batch Report

Batch Number: 96606  
 Date Started: 17-NOV-2004  
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE  
 Bgroup : N/A  
 Department : Metals

| Sample     | Type | Client             | Matrix | Analyses | Due Date    |
|------------|------|--------------------|--------|----------|-------------|
| 175913-001 |      | MWH                | Soil   | MOISTURE | 19-NOV-2004 |
| 175913-002 |      | MWH                | Soil   | MOISTURE | 19-NOV-2004 |
| 175913-003 |      | MWH                | Soil   | MOISTURE | 19-NOV-2004 |
| 175913-004 |      | MWH                | Soil   | MOISTURE | 19-NOV-2004 |
| 175913-005 |      | MWH                | Soil   | MOISTURE | 19-NOV-2004 |
| 175913-006 |      | MWH                | Soil   | MOISTURE | 19-NOV-2004 |
| 175913-008 |      | MWH                | Soil   | MOISTURE | 19-NOV-2004 |
| 175913-009 |      | MWH                | Soil   | MOISTURE | 19-NOV-2004 |
| 176103-001 |      | CH2M Hill Construc | Soil   | MOISTURE | 18-NOV-2004 |
| 176103-002 |      | CH2M Hill Construc | Soil   | MOISTURE | 18-NOV-2004 |
| 176103-003 |      | CH2M Hill Construc | Soil   | MOISTURE | 18-NOV-2004 |
| 176109-002 |      | Presidio Trust     | Soil   | MOISTURE | 18-NOV-2004 |
| 176109-003 |      | Presidio Trust     | Soil   | MOISTURE | 18-NOV-2004 |
| 176111-005 |      | Treadwell & Rollo  | Soil   | MOISTURE | 18-NOV-2004 |
| QC272729   | SDUP | of 176103-001      | Soil   | MOISTURE |             |



PROJECT

MOISTURE

Notebook No. 2033

Continued From Page

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11/17/04 # 96606

| Sample  | Bl. Dig. # | Tone wt. | Inv. wt. | Fun. wt. | Comments  |
|---------|------------|----------|----------|----------|-----------|
| Blank   | / 4D       | 15.9940  | —        | 15.9941  |           |
| 175913- | 1 A B103   | 11.1140  | 18.9296  | 18.7661  |           |
|         | 2 B101     | 11.0691  | 18.6244  | 16.6594  |           |
|         | 3 V        | 11.1597  | 19.7052  | 17.9457  |           |
|         | 4 B104     | 11.0418  | 18.3546  | 17.3734  | 17.3734   |
|         | 5 CL       | 11.1482  | 18.9488  | 16.9865  |           |
|         | 6 IV       | 11.2075  | 19.3467  | 17.5767  |           |
|         | 8 5X       | 15.5947  | 22.3194  | 21.0779  |           |
| ↓       | 9 AAA      | 11.1481  | 18.9501  | 17.3826  |           |
| 176103- | 1 2        | 10.9941  | 18.5082  | 17.0773  |           |
| ↓       | 1 A1       | 11.6763  | 18.6105  | 17.3351  |           |
|         | 2 1172     | 15.3139  | 22.3124  | 20.8717  |           |
| ↓       | 3 MORRIS   | 15.4126  | 22.7311  | 21.4771  |           |
| 176109- | 2 B116     | 11.1233  | 18.9643  | 18.4208  |           |
| ↓       | 3 B123     | 11.0929  | 18.7151  | 18.2125  |           |
| 176111- | 5 FFF      | 11.1093  | 19.2007  | 18.5239  | COMP. 1-4 |

OVER TEMP: 105°C

TIME IN: 5:50 P.M.

TIME OUT: 9:34 A.M.

ON: 11-18-04

Continued on Page

Read and Understood By

Z. Manning

11-17-04 110

mm

6/12/05

Signed

Date

Signed

Date

DRAFT FINAL  
LETTER REPORT  
SAMPLING AND TESTING  
IMPORTED DUNE SAND

*Presidio of San Francisco  
San Francisco, California*

Submitted to:

The Presidio Trust  
August 31, 2004

Prepared by:

**Geologica Inc.**

August 30, 2004

The Presidio Trust  
1750 Lincoln Boulevard  
San Francisco, CA 94129

Attention: Mr. George A. Ford  
Manager, Remedial Constructions

**DRAFT Final Letter Report  
GA-9 Stockpile Sampling and Testing  
Imported Dune Sand  
Presidio of San Francisco  
San Francisco, California**

Dear Mr. Ford:

## **1.0 INTRODUCTION AND PURPOSE**

GEOLOGICA is pleased to submit this Letter Report summarizing the results of dune sand stockpile sampling and analytical testing services performed at the Presidio of San Francisco (“the Presidio”) in San Francisco, California. Through mid-August 2004, approximately 21,000 cu yds of dune sand had been imported to the Presidio from construction excavations in Golden Gate Park in San Francisco. The stockpile is expected to eventually reach approximately 40,000 cu yds. The dune sand has been stockpiled at Graded Area 9 (GA-9) in the Presidio and is to be used for re-establishment of dune sand habitat at selected locations in the Presidio.

Based on information available, the dune sand is believed to be virgin material, un-impacted by any historical human activities. However, for purposes of documentation, and as a conservative measure, the Presidio Trust (“the Trust”) requested that a limited sampling and testing program be conducted to “spot check” the stockpile to confirm its expected condition. The following sections summarize the general approach, the work performed, and the results of the analytical testing.

## **2.0 GENERAL TECHNICAL APPROACH**

At the time of the sampling on July 30, 2004, approximately 15,000 cu yds of dune sand had been stockpiled at GA-9 in a roughly east-west trending pile approximately 240 feet long by 30 feet high by 50 feet wide (see **Figure 1**). As shown on **Figure 1**, the stockpile had two broad faces, one north-facing and one south-facing. The general approach was to collect four (4) uniformly-spaced, discrete samples along each of the two faces of the stockpile to allow for preparation of

two 4-point composite samples to be tested for a broad suite of parameters. Results were compared to relevant clean-up levels established for the Presidio (EKI, 2002). GEOLOGICA performed all sampling in accordance with the Presidio Trust Quality Assurance Project Plan (QAPP)/Sampling and Analysis Plan (SAP) dated February 2001. Details of the scope of work and methodologies employed are discussed in **Section 3**.

### **3.0 SCOPE OF WORK AND METHODOLOGIES**

Tasks undertaken are described in the following subsections:

#### **3.1 Task 1 – Preliminary Activities**

Task 1 included procurement and coordination with project subcontractors, including the analytical laboratory, Curtis & Tompkins, of Berkeley, CA, and the data validation subcontractor, DataVal, of San Rafael, CA, prior to fieldwork. Site access was facilitated by the Presidio Trust representative, Mr. George Ford. No special permits were required given the nature of the sampling.

#### **3.2 Task 2 – Stockpile Visual Observations and Sampling**

Task 2 included visual inspection of the stockpile. An effort was made to identify the presence of stockpile heterogeneities and/or potential contamination.

Sampling was conducted in accordance with *Presidio Trust – Environmental SOP No. 012, Bulk Material Sampling*. The eight (8) discrete samples (south face: GA9SS501 through GA9SS504; north face: GA9SS505 through GA9SS508) were collected at uniformly spaced locations on the two faces of the stockpile. In addition, on the south face, discrete sample duplicates (DUP073004-501 through DUP073004-504) were collected at each of the four locations to allow preparation of a duplicate composite sample. Sampling procedures were as follows: at each sampling location, GEOLOGICA field technician, Brian Aubry, R.G., C.E.G., cleared the upper 6 inches (0.5 feet) of surface dune sand with a dedicated, clean metal scoop. The scoop was then used to collect a discrete sample, which was placed in a laboratory-provided 8 oz glass sample jar with a plastic screw top. After collecting the sample, the jar was labeled for identification, and preserved in a cooler packed with ice to maintain a temperature of 4°C (+/- 2°C). All sampling equipment was cleaned prior to use; no decontamination was required between sample locations since dedicated scoops, cleaned prior to fieldwork and sealed in separate zip-lock bags, were used at each location.

#### **3.3 Task 3 - Analytical Testing and Data Validation Program**

Samples were hand delivered by GEOLOGICA immediately after sampling to Curtis & Tompkins of Berkeley, California for laboratory testing on a 48-hour rush turnaround basis with results to be provided in a Level III reporting format. Samples were composited by the laboratory as described on the chain-of-custody record. The laboratory was instructed to retain a portion of each discrete sample for potential future analysis, if warranted. The two composite samples and one duplicate were analyzed for the following suite of parameters:

- TPH – gasoline/BTEX C7-C12 by EPA Method 8015M/8020
- TPH - diesel C12-24 and TPH - motor oil C-24-36 by EPA Method 8015M
- Pesticides and PCBs by EPA Method 8081 and 8082
- Total Lead by ICP by EPA Method 6020

All testing was done in accordance with the Presidio Trust QAPP. TPH-diesel and motor oil testing included the silica gel cleanup procedure and all results were referenced to dry weight. Laboratory analytical results, in Level III reporting format, were delivered electronically on August 3, 2004 to DataVal of San Rafael, California for review.

## **4.0 RESULTS**

The following sections detail the results of the field sampling, analytical testing, and data validation programs.

### **4.1 Stockpile Visual Observations**

The stockpiled dune sand constituted a remarkably homogeneous, slightly moist, well-sorted, medium-grained dune sand, typical of windblown or wave-transported sand deposits. Virtually no organic debris or other matter was noted within the stockpiled material. No evidence of contamination of any kind was observed by the GEOLOGICA field technician. A photograph of the stockpile is included in **Figure 1**.

### **4.2 Composite Sample Laboratory Chemical Testing**

Laboratory analytical results and reporting levels are shown in **Table 1**. No TPH as gasoline/BTEX, TPH as diesel/motor oil, organochlorine pesticides, or PCBs were detected in any of the composite samples collected for this study. Total lead levels varied from 1.6 to 1.8 mg/kg in the two composite samples and the duplicate composite. The Curtis & Tompkins laboratory analytical report is included in **Appendix A**.

### **4.3 Data Quality Control Evaluation**

The Curtis & Tompkins Level III laboratory analytical report was reviewed by DataVal Inc. of San Rafael, CA. DataVal concluded that all of the data were “usable as reported.” The DataVal report is included as **Appendix B**.

The TPH-diesel and TPH-motor oil quantitation limits for the non-detect results in samples GA9SSCOMP501-504 and DUP073004COMP501-504 were each qualified as “an estimated value” due to surrogate recoveries outside the project acceptance criteria. This is likely due to matrix interferences. The data qualifications are noted in **Table 1**.

DataVal also noted that in some cases, reporting limits were raised above the project reporting limits due to the dry weight correction. In addition, the reporting limit for toxaphene was raised from 40 ug/kg to 61-62 ug/kg.

## 5.0 DISCUSSION

**Table 1** includes available soil clean-up levels established for the Presidio in EKI (2002), *Cleanup Levels Document*. Analytical results are compared to the dune sand soil clean-up levels for human residential land use / protection of ecological receptors. None of the constituents tested, with the exception of total lead, were detected above their reporting levels. Even though the reporting levels have in some cases been slightly raised or qualified (as described in **Section 4.3**), all reporting levels are well below available soil cleanup criteria. (It should be noted that no Presidio clean-up criteria have been established for toxaphene and gamma-BHC.) Total lead levels detected (1.6 to 1.8 mg/kg) are well below the total lead cleanup level of 160 mg/kg. The total lead levels are almost certainly indicative of naturally-occurring background lead concentrations in the material.

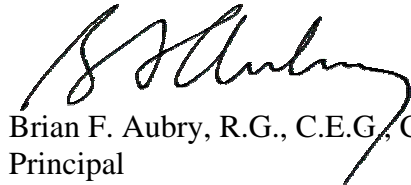
## 6.0 CONCLUSIONS

Based on this limited composite sample testing program, no evidence was found to disconfirm available information regarding the unimpaired nature of the dune sand or indicate contamination that would render it inappropriate for its intended use. Assuming that the dune sand imported to the Presidio after July 30, 2004, i.e., the remainder of the 40,000 cu yds, is of similar origin and character, no further sampling or testing is recommended for this material.

Should you have any questions about this Letter Report, please do not hesitate to contact me at (415) 597-7883.

Sincerely,

GEOLOGICA INC.



Brian F. Aubry, R.G., C.E.G., C.Hg.  
Principal

Attachments:

Table 1 – Summary of Chemical Test Results

Figure 1 – Discrete Sample Locations, GA-9 Dune Sand Stockpile, July 30, 2004

Appendix A – *Analytical Laboratory Report*, Curtis & Tompkins, August 10, 2004

Appendix B – *Quality Control Summary Report*, DataVal Inc., August 11, 2004

# TABLES

TABLE 1

**Summary of Chemical Test Results<sup>(1)</sup>**  
**Dune Sand Stockpile Composite Samples**  
**Area GA-9**  
**Presidio of San Francisco**  
**July 30, 2004**

| Method                                  | Analyte  | Units | Reporting Limit | GA9SS-<br>COMP501-504 | DUP073004-<br>COMP501-504 <sup>(2)</sup> | GA9SS-<br>COMP505-508 | Soil Cleanup Levels <sup>(3)</sup><br>Residential - Beach / Dune<br>Ecological - Special Status |
|---|--|-------|-----------------|-----------------------|--|-----------------------|---|
| Date Sampled                            |  |       |                 | 7/30/2004             | 7/30/2004                                | 7/30/2004             |   |
| Discrete Sample Depth (ft bgs)          |  |       |                 | 6"                    | 6"                                       | 6"                    |   |
| <b>Petroleum Hydrocarbons</b>           |  |       |                 |                       |  |                       |   |
| EPA 8015B                               | Diesel Range Organics (C12-C24) <sup>(4)</sup> | mg/kg | 1.0             | <1.0 <sup>(5)</sup>   | <1.0 <sup>(5)</sup>                      | <1.0                  | 700 (115) <sup>(6)</sup>  |
| EPA 8015B                               | Motor Oil Range Organics (C24-C36)             | mg/kg | 5.1             | <5.1 <sup>(5)</sup>   | <5.1 <sup>(5)</sup>                      | <5.1                  | 980 (160)   |
| EPA 8015B                               | Gasoline Range Organics (C7-C12)               | mg/kg | 0.97 - 1.0      | <1.0                  | <0.97                                    | <1.0                  | 610 (100)   |
| EPA 8021B                               | Benzene  | ug/kg | 4.9 - 5.1       | <5.1                  | <4.9                                     | <5.0                  | 600   |
| EPA 8021B                               | Toluene  | ug/kg | 4.9 - 5.1       | <5.1                  | <4.9                                     | <5.0                  | 270,000   |
| EPA 8021B                               | Ethylbenzene                                   | ug/kg | 4.9 - 5.1       | <5.1                  | <4.9                                     | <5.0                  | 60,000  |
| EPA 8021B                               | m, p-Xylenes                                   | ug/kg | 4.9 - 5.1       | <5.1                  | <4.9                                     | <5.0                  | 55,000 <sup>(7)</sup>   |
| EPA 8021B                               | o-Xylene                                       | ug/kg | 4.9 - 5.1       | <5.1                  | <4.9                                     | <5.0                  | 55,000 <sup>(7)</sup>   |
| <b>Organochlorine Pesticides</b>        |  |       |                 |                       |  |                       |   |
| EPA 8081A                               | alpha-BHC                                      | ug/kg | 1.7 - 1.8       | <1.7                  | <1.7                                     | <1.8                  | 62  |
| EPA 8081A                               | beta-BHC                                       | ug/kg | 1.7 - 1.8       | <1.7                  | <1.7                                     | <1.8                  | 62  |
| EPA 8081A                               | gamma-BHC                                      | ug/kg | 1.7 - 1.8       | <1.7                  | <1.7                                     | <1.8                  | -   |
| EPA 8081A                               | delta-BHC                                      | ug/kg | 1.7 - 1.8       | <1.7                  | <1.7                                     | <1.8                  | 62  |
| EPA 8081A                               | Heptachlor                                     | ug/kg | 1.7 - 1.8       | <1.7                  | <1.7                                     | <1.8                  | 17  |
| EPA 8081A                               | Aldrin   | ug/kg | 1.7 - 1.8       | <1.7                  | <1.7                                     | <1.8                  | 3.9   |
| EPA 8081A                               | Heptachlor epoxide                             | ug/kg | 1.7 - 1.8       | <1.7                  | <1.7                                     | <1.8                  | 17  |
| EPA 8081A                               | Endosulfan I                                   | ug/kg | 1.7 - 1.8       | <1.7                  | <1.7                                     | <1.8                  | 1,100 <sup>(8)</sup>  |
| EPA 8081A                               | Dieldrin                                       | ug/kg | 3.3 - 3.4       | <3.3                  | <3.4                                     | <3.4                  | 30  |
| EPA 8081A                               | 4,4' -DDE                                      | ug/kg | 3.3 - 3.4       | <3.3                  | <3.4                                     | <3.4                  | 98  |
| EPA 8081A                               | Endrin   | ug/kg | 3.3 - 3.4       | <3.3                  | <3.4                                     | <3.4                  | 4   |
| EPA 8081A                               | Endosulfan II                                  | ug/kg | 3.3 - 3.4       | <3.3                  | <3.4                                     | <3.4                  | 1,100 <sup>(8)</sup>  |
| EPA 8081A                               | Endosulfan Sulfate                             | ug/kg | 3.3 - 3.4       | <3.3                  | <3.4                                     | <3.4                  | 1,100   |
| EPA 8081A                               | 4, 4'-DDD                                      | ug/kg | 3.3 - 3.4       | <3.3                  | <3.4                                     | <3.4                  | 49  |
| EPA 8081A                               | Endrin aldehyde                                | ug/kg | 3.3 - 3.4       | <3.3                  | <3.4                                     | <3.4                  | 4   |
| EPA 8081A                               | 4, 4' -DDT                                     | ug/kg | 3.3 - 3.4       | <3.3                  | <3.4                                     | <3.4                  | 8.2   |
| EPA 8081A                               | alpha-Chlordane                                | ug/kg | 1.7 - 1.8       | <1.7                  | <1.7                                     | <1.8                  | 9 <sup>(9)</sup>  |
| EPA 8081A                               | gamma-Chlordane                                | ug/kg | 1.7 - 1.8       | <1.7                  | <1.7                                     | <1.8                  | 9 <sup>(9)</sup>  |
| EPA 8081A                               | Methoxychlor                                   | ug/kg | 17 - 18         | <17                   | <17                                      | <18                   | 440   |
| EPA 8081A                               | Toxaphene                                      | ug/kg | 61 - 62         | <61                   | <61                                      | <62                   | -   |
| <b>Polychlorinated Biphenyls (PCBs)</b> |  |       |                 |                       |  |                       |   |
| EPA 8082                                | Aroclor-1016                                   | ug/kg | 12              | <12                   | <12                                      | <12                   | -   |
| EPA 8082                                | Aroclor-1221                                   | ug/kg | 24 - 25         | <24                   | <24                                      | <25                   | -   |
| EPA 8082                                | Aroclor-1232                                   | ug/kg | 12              | <12                   | <12                                      | <12                   | -   |
| EPA 8082                                | Aroclor-1242                                   | ug/kg | 12              | <12                   | <12                                      | <12                   | -   |
| EPA 8082                                | Aroclor-1248                                   | ug/kg | 12              | <12                   | <12                                      | <12                   | -   |
| EPA 8082                                | Aroclor-1254                                   | ug/kg | 12              | <12                   | <12                                      | <12                   | 33  |
| EPA 8082                                | Aroclor-1260                                   | ug/kg | 12              | <12                   | <12                                      | <12                   | -   |
| <b>Inorganics</b>                       |  |       |                 |                       |  |                       |   |
| EPA 6020                                | Lead (total)                                   | mg/kg | 0.14 - 0.17     | 1.8                   | 1.6                                      | 1.6                   | 160   |

**Notes:**

1. Compositing and analyses performed by Curtis & Tompkins, Ltd. of Berkeley, CA. All results referenced to dry weight.
2. Duplicate sample of GA9SS-COMP501-504
3. *Cleanup Levels Document* (EKL, 2002)
4. Silica Gel Cleanup procedures performed.
5. The non-detected results for TPH-diesel and TPH-motor oil were qualified as estimated (UJ) in these two samples by DataVal, Inc.
6. Value shown in parentheses applies if the depth to groundwater is less than 5 feet.
7. Value is for total xylenes.
8. Value is for chlordane.
9. Value is for endosulfan.

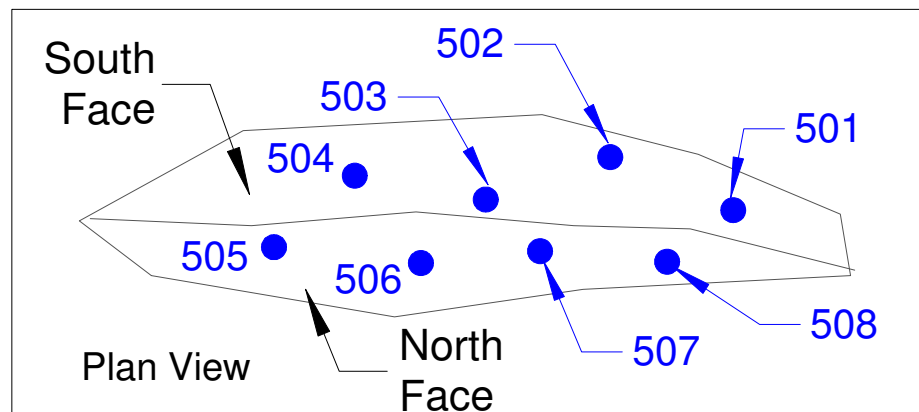


# FIGURES



Typical View (Looking Southwest) of Soil Stockpile Showing North Face Sample Locations - 7/30/04

505 ● Approximate Location of Discrete Sample



**geologica**

594 Howard Street, Suite 400  
San Francisco, California

**Discrete Sample Locations  
GA-9 Dune Sand Stockpile  
July 30, 2004**

**Presidio of San Francisco  
San Francisco, California**

**Figure 1**

# **APPENDIX A**

## **Curtis & Thompkins Analytical Laboratories Report**



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173746

Geologica  
594 Howard Street  
San Francisco, CA 94105

Project#: STANDARD  
Location: GA-9 Stockpile Sampling

| <u>Sample ID</u>     | <u>Lab ID</u> |
|----------------------|---------------|
| GA9SS501             | 173746-001    |
| GA9SS502             | 173746-002    |
| GA9SS503             | 173746-003    |
| GA9SS504             | 173746-004    |
| GA9SSCOMP501-504     | 173746-005    |
| DUP073004-501        | 173746-006    |
| DUP073004-502        | 173746-007    |
| DUP073004-503        | 173746-008    |
| DUP073004-504        | 173746-009    |
| DUP073004COMP501-504 | 173746-010    |
| GA9SS505             | 173746-011    |
| GA9SS506             | 173746-012    |
| GA9SS507             | 173746-013    |
| GA9SS508             | 173746-014    |
| GA9SSCOMP505-508     | 173746-015    |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature:  \_\_\_\_\_  
Operations Manager

Date: 8/12/04

Signature:  \_\_\_\_\_  
Project Manager

Date: 8/10/04

**Laboratory Number:** 173746  
**Client:** Geologica  
**Location:** GA-9 Stockpile Sampling

**Receipt Date:** 07/30/04

## **CASE NARRATIVE**

This hardcopy data package contains sample and QC results for twelve soil samples that were received on July 30, 2004. The samples were received intact on ice. All soil results are reported on a dry weight basis.

Soil samples were composited 4 to 1 prior to analysis.

**TPH / BTXE-Purgeable Hydrocarbons by EPA 8015B/ 8021B:** High surrogate recovery was observed for Trifluorotoluene in the LCS, matrix spike and matrix spike duplicate of soil sample batch 93368. This outlier should not affect the quality of the data, as no target compounds were detected in the associated samples or method blank. High response was observed for Trifluorotoluene in the CCVs that were analyzed on June 30, 2004 (files 213\_002 and 213\_015). This outlier should not affect the quality of the data, as this compound met the laboratory criteria limit. No other analytical problems were encountered.

**TPH-Extractable Hydrocarbons by EPA 8015B:** All samples were silica gel cleaned prior to analysis. No analytical problems were encountered.

**Organochlorine Pesticides by EPA 8081A:** All continuing calibration verifications met the average %D limit of 15% as is required by Method 8081A. No other analytical problems were encountered.

**Polychlorinated Biphenyls (PCBs) by EPA 8082:** No analytical problems were encountered.

**Metals by EPA 6010B:** No analytical problems were encountered.

## **Chain of Custody**

Chain of Custody Record  
173746

Report Results To:

baubry@geologin.net  
Tel: (415) 597-7863

(415) 597-7880



| MWOW#                             |      | Project Name: GA-9 - STOCKPILE SAMPLING & TESTING |       |                          |      |                     |        |                                       |
|-----------------------------------|------|---|-------|--------------------------|------|---------------------|--------|---------------------------------------|
| Sample Number                     |      | Date  | Time  | Comp.                    | Grab | Cont. Type & Number | Matrix | Field Notes                           |
| SAMPLERS: (Signature) BRIAN AUBRY |      | Geologica Inc.<br>(415) 597-7883                  |       |                          |      |                     |        |                                       |
| GA9SS501                          | 7/30 | 11:30A  |       |                          | ✓    | 802 GLASS           | SOIL   | 4-1                                   |
| GA9SS502                          |      |   |       |                          | ✓    |                     |        | COMPOSITE                             |
| GA9SS503                          |      |   |       |                          | ✓    |                     |        | SAMPLE                                |
| GA9SS504                          |      |   |       |                          | ✓    |                     |        | "GA9SS COMP 501-504"                  |
| GA9SS COMP 501-504                |      |   |       |                          |      |                     |        |                                       |
| DUP073004-501                     | 7/30 | 11:30A  |       |                          | ✓    | 802 GLASS           | SOIL   | 4-1                                   |
| DUP073004-502                     |      |   |       |                          | ✓    |                     |        | COMPOSITE                             |
| DUP073004-503                     |      |   |       |                          | ✓    |                     |        | SAMPLE "503"                          |
| DUP073004-504                     |      |   |       |                          | ✓    |                     |        | "GA9SS COMP 501-504"                  |
| DUP073004-504                     |      |   |       |                          |      |                     |        |                                       |
| GA9SS505                          | 7/30 | 11:00A  |       |                          | ✓    | 802 GLASS           | SOIL   | 4-1                                   |
| GA9SS506                          |      |   |       |                          | ✓    |                     |        | COMPOSITE                             |
| GA9SS507                          |      |   |       |                          | ✓    |                     |        | SAMPLE                                |
| GA9SS508                          |      |   |       |                          | ✓    |                     |        | "GA9SS COMP 505-508"                  |
| GA9SS COMP 505-508                |      |   |       |                          |      |                     |        |                                       |
| Relinquished By: (Signature)      |      | Date  | Time  | Received By: (Signature) |      | Date                | Time   | Remarks:                              |
| [Signature]                       |      | 7/30/04   | 2:40P | [Signature]              |      | 7/30/04             | 2:40P  | 48-HOUR RUSH                          |
| Relinquished By: (Signature)      |      | Date  | Time  | Received By: (Signature) |      | Date                | Time   | RESULTS AS DRY-WEIGHT; SAVE DISCRETES |
| [Signature]                       |      |   |       | [Signature]              |      |                     |        | Turnaround Time: 48-HOUR RUSH         |
| Relinquished By: (Signature)      |      | Date  | Time  | Received By: (Signature) |      | Date                | Time   |                                       |
| [Signature]                       |      |   |       | [Signature]              |      |                     |        |                                       |

Matrix Code: S = Soil W = Water WS = Waste

Received ☒ On top  
☐ Cold ☐ Ambient ☐ Intact

EDD

TRANSMIT TO DATAVAL  
CONCURRENTLY

2/3/2000

SOP Volume: Client Services  
Section: 1.1.2  
Page: 1 of 1  
Effective Date: 10-May-99  
Revision: 1 Number 1 of 3  
Filename: F:\QC\Forms\QC\Cooler.wpd



## COOLER RECEIPT CHECKLIST

Login#: 173740 Date Received: 7/30/04 Number of Coolers: 1  
Client: Geologica Project: GA-9 Stockpile

A. Preliminary Examination Phase

Date Opened: 7/30/04 By (print): P. J. P. (sign) P. J. P.

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO

If YES, enter carrier name and airbill number: \_\_\_\_\_

2. Were custody seals on outside of cooler?..... YES ☒ NO

How many and where? \_\_\_\_\_ Seal date: \_\_\_\_\_ Seal name: \_\_\_\_\_

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO N/A

4. Were custody papers dry and intact when received?..... ☒ YES NO

5. Were custody papers filled out properly (ink, signed, etc.)?..... ☒ YES NO

6. Did you sign the custody papers in the appropriate place?..... ☒ YES NO

7. Was project identifiable from custody papers?..... ☒ YES NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. .... YES NO

Type of ice: WET Temperature: on ice

B. Login Phase

Date Logged In: 7/30/04 By (print): P. J. P. (sign) P. J. P.

1. Describe type of packing in cooler: Cardboard BOX

2. Did all bottles arrive unbroken?..... ☒ YES NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... ☒ YES NO

4. Did bottle labels agree with custody papers?..... ☒ YES NO

5. Were appropriate containers used for the tests indicated?..... ☒ YES NO

6. Were correct preservatives added to samples?..... YES NO N/A

7. Was sufficient amount of sample sent for tests indicated?..... ☒ YES NO

8. Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES NO N/A

9. Was the client contacted concerning this sample delivery?..... YES NO

If YES, give details below.

Who was called? \_\_\_\_\_ By whom? \_\_\_\_\_ Date: \_\_\_\_\_

Additional Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## **TVHg / BTXE Rest lts & QC Summary**

### Curtis & Tompkins Laboratories Analytical Report

|           |           |           |                         |
|-----------|-----------|-----------|-------------------------|
| Lab #:    | 173746    | Location: | GA-9 Stockpile Sampling |
| Client:   | Geologica | Prep:     | EPA 5030B               |
| Project#: | STANDARD  |           |                         |
| Matrix:   | Soil      | Sampled:  | 07/30/04                |
| Diln Fac: | 1.000     | Received: | 07/30/04                |
| Batch#:   | 93368     | Analyzed: | 07/31/04                |

Field ID: GA9SSCOMP501-504      Basis: dry  
Type: SAMPLE      Moisture: 2%  
Lab ID: 173746-005

| Analyte         | Result | RL  | Units | Analysis  |
|-----------------|--------|-----|-------|-----------|
| Gasoline C7-C12 | ND     | 1.0 | mg/Kg | EPA 8015B |
| Benzene         | ND     | 5.1 | ug/Kg | EPA 8021B |
| Toluene         | ND     | 5.1 | ug/Kg | EPA 8021B |
| Ethylbenzene    | ND     | 5.1 | ug/Kg | EPA 8021B |
| m,p-Xylenes     | ND     | 5.1 | ug/Kg | EPA 8021B |
| o-Xylene        | ND     | 5.1 | ug/Kg | EPA 8021B |

| Surrogate                | %REC | Limits | Analysis  |
|--------------------------|------|--------|-----------|
| Trifluorotoluene (FID)   | 94   | 71-138 | EPA 8015B |
| Bromofluorobenzene (FID) | 96   | 73-143 | EPA 8015B |
| Trifluorotoluene (PID)   | 91   | 55-135 | EPA 8021B |
| Bromofluorobenzene (PID) | 94   | 58-135 | EPA 8021B |

Field ID: DUP073004COMP501-504      Basis: dry  
Type: SAMPLE      Moisture: 2%  
Lab ID: 173746-010

| Analyte         | Result | RL   | Units | Analysis  |
|-----------------|--------|------|-------|-----------|
| Gasoline C7-C12 | ND     | 0.97 | mg/Kg | EPA 8015B |
| Benzene         | ND     | 4.9  | ug/Kg | EPA 8021B |
| Toluene         | ND     | 4.9  | ug/Kg | EPA 8021B |
| Ethylbenzene    | ND     | 4.9  | ug/Kg | EPA 8021B |
| m,p-Xylenes     | ND     | 4.9  | ug/Kg | EPA 8021B |
| o-Xylene        | ND     | 4.9  | ug/Kg | EPA 8021B |

| Surrogate                | %REC | Limits | Analysis  |
|--------------------------|------|--------|-----------|
| Trifluorotoluene (FID)   | 100  | 71-138 | EPA 8015B |
| Bromofluorobenzene (FID) | 101  | 73-143 | EPA 8015B |
| Trifluorotoluene (PID)   | 96   | 55-135 | EPA 8021B |
| Bromofluorobenzene (PID) | 97   | 58-135 | EPA 8021B |

ND= Not Detected  
RL= Reporting Limit  
Page 1 of 2

# Curtis & Tompkins Laboratories Analytical Report

|           |           |           |                         |
|-----------|-----------|-----------|-------------------------|
| Lab #:    | 173746    | Location: | GA-9 Stockpile Sampling |
| Client:   | Geologica | Prep:     | EPA 5030B               |
| Project#: | STANDARD  |           |                         |
| Matrix:   | Soil      | Sampled:  | 07/30/04                |
| Diln Fac: | 1.000     | Received: | 07/30/04                |
| Batch#:   | 93368     | Analyzed: | 07/31/04                |

Field ID: GA9SSCOMP505-508 Basis: dry  
Type: SAMPLE Moisture: 3%  
Lab ID: 173746-015

| Analyte         | Result | RL  | Units | Analysis  |
|-----------------|--------|-----|-------|-----------|
| Gasoline C7-C12 | ND     | 1.0 | mg/Kg | EPA 8015B |
| Benzene         | ND     | 5.0 | ug/Kg | EPA 8021B |
| Toluene         | ND     | 5.0 | ug/Kg | EPA 8021B |
| Ethylbenzene    | ND     | 5.0 | ug/Kg | EPA 8021B |
| m,p-Xylenes     | ND     | 5.0 | ug/Kg | EPA 8021B |
| o-Xylene        | ND     | 5.0 | ug/Kg | EPA 8021B |

| Surrogate                | %REC | Limits | Analysis  |
|--------------------------|------|--------|-----------|
| Trifluorotoluene (FID)   | 99   | 71-138 | EPA 8015B |
| Bromofluorobenzene (FID) | 102  | 73-143 | EPA 8015B |
| Trifluorotoluene (PID)   | 95   | 55-135 | EPA 8021B |
| Bromofluorobenzene (PID) | 98   | 58-135 | EPA 8021B |

Type: BLANK Basis: as received  
Lab ID: QC259703

| Analyte         | Result | RL  | Units | Analysis  |
|-----------------|--------|-----|-------|-----------|
| Gasoline C7-C12 | ND     | 1.0 | mg/Kg | EPA 8015B |
| Benzene         | ND     | 5.0 | ug/Kg | EPA 8021B |
| Toluene         | ND     | 5.0 | ug/Kg | EPA 8021B |
| Ethylbenzene    | ND     | 5.0 | ug/Kg | EPA 8021B |
| m,p-Xylenes     | ND     | 5.0 | ug/Kg | EPA 8021B |
| o-Xylene        | ND     | 5.0 | ug/Kg | EPA 8021B |

| Surrogate                | %REC | Limits | Analysis  |
|--------------------------|------|--------|-----------|
| Trifluorotoluene (FID)   | 94   | 71-138 | EPA 8015B |
| Bromofluorobenzene (FID) | 95   | 73-143 | EPA 8015B |
| Trifluorotoluene (PID)   | 93   | 55-135 | EPA 8021B |
| Bromofluorobenzene (PID) | 93   | 58-135 | EPA 8021B |

ND= Not Detected  
RL= Reporting Limit  
Page 2 of 2

Batch QC Report

| Curtis & Tompkins Laboratories Analytical Report |           |           |                         |
|--|-----------|-----------|-------------------------|
| Lab #:   | 173746    | Location: | GA-9 Stockpile Sampling |
| Client:  | Geologica | Prep:     | EPA 5030B               |
| Project#:  | STANDARD  | Analysis: | EPA 8015B               |
| Type:  | LCS       | Basis:    | as received             |
| Lab ID:  | QC259704  | Diln Fac: | 1.000                   |
| Matrix:  | Soil      | Batch#:   | 93368                   |
| Units:   | mg/Kg     | Analyzed: | 07/31/04                |

| Analyte         | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 10.00  | 11.22  | 112  | 80-120 |

| Surrogate                | %REC  | Limits |
|--------------------------|-------|--------|
| Trifluorotoluene (FID)   | 147 * | 71-138 |
| Bromofluorobenzene (FID) | 108   | 73-143 |

\*= Value outside of QC limits; see narrative  
Page 1 of 1

## Batch QC Report

| Curtis & Tompkins Laboratories Analytical Report |           |           |                         |
|--|-----------|-----------|-------------------------|
| Lab #:   | 173746    | Location: | GA-9 Stockpile Sampling |
| Client:  | Geologica | Prep:     | EPA 5030B               |
| Project#:  | STANDARD  | Analysis: | EPA 8021B               |
| Type:  | LCS       | Basis:    | as received             |
| Lab ID:  | QC259705  | Diln Fac: | 1.000                   |
| Matrix:  | Soil      | Batch#:   | 93368                   |
| Units:   | ug/Kg     | Analyzed: | 07/31/04                |

| Analyte      | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Benzene      | 100.0  | 103.9  | 104  | 80-120 |
| Toluene      | 100.0  | 107.6  | 108  | 80-120 |
| Ethylbenzene | 100.0  | 107.8  | 108  | 79-120 |
| m,p-Xylenes  | 100.0  | 107.8  | 108  | 80-120 |
| o-Xylene     | 100.0  | 109.1  | 109  | 80-120 |

| Surrogate                | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID)   | 95   | 55-135 |
| Bromofluorobenzene (PID) | 96   | 58-135 |



## Batch QC Report

## Curtis &amp; Tompkins Laboratories Analytical Report

|             |                  |           |                         |
|-------------|------------------|-----------|-------------------------|
| Lab #:      | 173746           | Location: | GA-9 Stockpile Sampling |
| Client:     | Geologica        | Prep:     | EPA 5030B               |
| Project#:   | STANDARD         | Analysis: | EPA 8015B               |
| Field ID:   | GA9SSCOMP501-504 | Diln Fac: | 1.000                   |
| MSS Lab ID: | 173746-005       | Batch#:   | 93368                   |
| Matrix:     | Soil             | Sampled:  | 07/30/04                |
| Units:      | mg/Kg            | Received: | 07/30/04                |
| Basis:      | as received      | Analyzed: | 07/31/04                |

Type: MS

Lab ID: QC259706

| Analyte         | MSS Result | Spiked | Result | %REC | Limits |
|-----------------|------------|--------|--------|------|--------|
| Gasoline C7-C12 | 0.1288     | 9.804  | 10.46  | 105  | 47-120 |

| Surrogate                | %REC  | Limits |
|--------------------------|-------|--------|
| Trifluorotoluene (FID)   | 143 * | 71-138 |
| Bromofluorobenzene (FID) | 105   | 73-143 |

Type: MSD

Lab ID: QC259707

| Analyte         | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 9.709  | 10.27  | 104  | 47-120 | 1   | 23  |

| Surrogate                | %REC  | Limits |
|--------------------------|-------|--------|
| Trifluorotoluene (FID)   | 144 * | 71-138 |
| Bromofluorobenzene (FID) | 105   | 73-143 |

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Page 1 of 1

INITIAL CALIBRATION REPORT FOR 173746 GCVOA Soil  
Curtis & Tompkins Laboratories

Instrument: GC04      Gas Chromatograph #4 TVH/BTXE      Reviewed By: CW  
Calnum: 304043847001      Name: tvh      Type: (normal)      Date: 31-JAN-2004 00:46 Inj Vol (uL): 5000

Calibration levels:

| # | Filename | Seqnum       | Samplenum | Analyzed          | Standards                          |
|---|----------|--------------|-----------|-------------------|------------------------------------|
| 1 | 030_020  | 304043847020 | gas 1     | 31-JAN-2004 00:46 | 03WS1660 (1000X), 03WS2046 (1000X) |
| 2 | 030_022  | 304043847022 | gas 2     | 31-JAN-2004 01:57 | 03WS1661 (1000X), 03WS2046 (1000X) |
| 3 | 030_023  | 304043847023 | gas 3     | 31-JAN-2004 02:32 | 03WS1662 (1000X), 03WS2046 (1000X) |
| 4 | 030_024  | 304043847024 | gas 4     | 31-JAN-2004 03:07 | 03WS1663 (2000X), 03WS2046 (1000X) |
| 5 | 030_025  | 304043847025 | gas 5     | 31-JAN-2004 03:43 | 03WS1663 (1000X), 03WS2046 (1000X) |

| Analyte         | Ch | L1     | L2     | L3     | L4     | L5     | Type | X | a0       | a1 | a2 | r^2   |        |      |       | Flags |
|-----------------|----|--------|--------|--------|--------|--------|------|---|----------|----|----|-------|--------|------|-------|-------|
|                 |    |        |        |        |        |        |      |   |          |    |    | units | avg    | %RSD | MnR^2 |       |
| Gasoline C6-Cl0 | J  | 2138.4 | 1740.2 | 1655.8 | 1780.8 | 1656.6 | AVRG | R | 5.573E-4 |    |    | ng    | 1794.4 | 11   | 0.995 | 20    |
| Gasoline C6-Cl2 | J  | 2865.8 | 2257.1 | 2132.6 | 2280.7 | 2134.3 | AVRG | R | 4.284E-4 |    |    | ng    | 2334.1 | 13   | 0.995 | 20    |
| Gasoline C7-Cl2 | J  | 2191.6 | 1757.7 | 1658.3 | 1766.1 | 1665.7 | AVRG | R | 5.531E-4 |    |    | ng    | 1807.9 | 12   | 0.995 | 20    |

INITIAL CALIBRATION REPORT FOR 173746 GCVOA Soil  
Curtis & Tompkins Laboratories

Instrument: GC04      Gas Chromatograph #4 TVH/BTXE      Reviewed By: MMP  
Calnum: 304262792001      Name:      Type: (normal)      Date: 30-JUN-2004 12:27 Inj Vol (uL): 5000

Calibration levels:

| # | Filename | Seqnum       | Samplenum | Analyzed          | Standards        |
|---|----------|--------------|-----------|-------------------|------------------|
| 1 | 182_002  | 304262792002 | tft/bfb1  | 30-JUN-2004 12:27 | 04WS1076 (5000X) |
| 2 | 182_003  | 304262792003 | tft/bfb2  | 30-JUN-2004 13:03 | 04WS1077 (5000X) |
| 3 | 182_004  | 304262792004 | tft/bfb3  | 30-JUN-2004 13:39 | 04WS1078 (5000X) |
| 4 | 182_005  | 304262792005 | tft/bfb4  | 30-JUN-2004 14:16 | 04WS1079 (5000X) |
| 5 | 182_006  | 304262792006 | tft/bfb5  | 30-JUN-2004 15:00 | 04WS1080 (5000X) |

| Analyte                  | Ch | L1     | L2     | L3     | L4     | L5     | Type | X | a0       | a1     | a2 | units | avg    | %RSD | MnR^2 | MxRSD | Flags |
|--------------------------|----|--------|--------|--------|--------|--------|------|---|----------|--------|----|-------|--------|------|-------|-------|-------|
| Trifluorotoluene (FID)   | J  | 1979.8 | 1921.6 | 1771.4 | 1908.6 | 1899.7 | AVRG | R | 5.274E-4 | 1896.2 | 4  | ng    | 1896.2 | 4    | 0.995 | 20    |       |
| Bromofluorobenzene (FID) | J  | 1274.9 | 1278.6 | 1166.0 | 1284.4 | 1245.9 | AVRG | R | 8.000E-4 | 1250.0 | 4  | ng    | 1250.0 | 4    | 0.995 | 20    |       |
| Trifluorotoluene (PID)   | K  | 1043.0 | 995.95 | 954.29 | 1038.8 | 1044.4 | AVRG | R | 9.850E-4 | 1015.3 | 4  | ng    | 1015.3 | 4    | 0.995 | 20    |       |
| Bromofluorobenzene (PID) | K  | 2289.6 | 2226.2 | 2143.3 | 2334.2 | 2357.9 | AVRG | R | 4.405E-4 | 2270.2 | 4  | ng    | 2270.2 | 4    | 0.995 | 20    |       |
| Trifluorotoluene (PID)   | L  | 196.99 | 199.58 | 192.22 | 211.06 | 209.07 | AVRG | R | 0.004956 | 201.79 | 4  | ng    | 201.79 | 4    | 0.995 | 20    |       |
| Bromofluorobenzene (PID) | L  | 427.66 | 429.58 | 410.25 | 447.58 | 446.24 | AVRG | R | 0.002313 | 432.26 | 4  | ng    | 432.26 | 4    | 0.995 | 20    |       |

Curves:      AVRG: Average response factor

Instrument amount = a0 + response \* a1 + response^2 \* a2



INITIAL CALIBRATION REPORT FOR 173746 GCVOA Soil  
Curtis & Tompkins Laboratories

Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Reviewed By: MCH  
Calnum: 304299992001 Name: Type: (normal) Date: 26-JUL-2004 08:27 Inj Vol (uL): 5000

Calibration levels:

| #            | Filename | Segnum       | Samplenum | Analyzed    |        |                                    |        |        |        |      |   |    |          | Standards |       |        |      |                  |        |       |  |  |  |  |  |
|--------------|----------|--------------|-----------|-------------|--------|------------------------------------|--------|--------|--------|------|---|----|----------|-----------|-------|--------|------|------------------|--------|-------|--|--|--|--|--|
| 1            | 208_002  | 304299992002 | btxe1     |             |        |                                    |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
| 2            | 208_003  | 304299992003 | mtbe1     |             |        |                                    |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
| 3            | 208_004  | 304299992004 | mbtixe2   |             |        |                                    |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
| 4            | 208_005  | 304299992005 | mbtixe3   |             |        |                                    |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
| 5            | 208_006  | 304299992006 | mbtixe4   |             |        |                                    |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
| 6            | 208_007  | 304299992007 | mbtixe5   |             |        |                                    |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
| 7            | 208_008  | 304299992008 | mbtixe6   |             |        |                                    |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
| 8            | 208_009  | 304299992009 | mtbe7     |             |        |                                    |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
|              |          |              |           | 26-JUL-2004 | 08:27  | 04WS1273 (1000X), 04WS1342 (5000X) |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
|              |          |              |           | 26-JUL-2004 | 09:04  | 04WS1274 (1250X), 04WS1342 (5000X) |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
|              |          |              |           | 26-JUL-2004 | 09:40  | 04WS1274 (500X), 04WS1342 (5000X)  |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
|              |          |              |           | 26-JUL-2004 | 10:15  | 04WS1274 (125X), 04WS1342 (5000X)  |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
|              |          |              |           | 26-JUL-2004 | 10:51  | 04WS1275 (1000X), 04WS1342 (5000X) |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
|              |          |              |           | 26-JUL-2004 | 11:26  | 04WS1275 (500X), 04WS1342 (5000X)  |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
|              |          |              |           | 26-JUL-2004 | 12:02  | 04WS1275 (250X), 04WS1342 (5000X)  |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
|              |          |              |           | 26-JUL-2004 | 12:38  | 04WS1276 (500X), 04WS1342 (5000X)  |        |        |        |      |   |    |          |           |       |        |      |                  |        |       |  |  |  |  |  |
| Analyte      | Ch       | L1           | L2        | L3          | L4     | L5                                 | L6     | L7     | L8     | Type | X | a0 | a1       | a2        | units | avg    | %RSD | MnR <sup>2</sup> | MaxRSD | Flags |  |  |  |  |  |
| MTBE         | K        |              | 1432.8    | 1209.8      | 1021.0 | 1016.8                             | 1054.2 | 1095.7 | 1082.8 | AVRG | R |    | 8.846E-4 |           | ng    | 1130.4 | 13   | 0.995            | 20     |       |  |  |  |  |  |
| Benzene      | K        | 3730.8       |           | 3342.4      | 3360.8 | 3489.2                             | 3615.4 | 3781.0 |        | AVRG | R |    | 2.014E-4 |           | ng    | 3333.3 | 3    | 0.995            | 20     |       |  |  |  |  |  |
| Toluene      | K        | 3797.9       |           | 3229.2      | 3581.5 | 3706.7                             | 3769.8 | 3879.5 |        | AVRG | R |    | 2.732E-4 |           | ng    | 3660.8 | 6    | 0.995            | 20     |       |  |  |  |  |  |
| Ethylbenzene | K        | 3395.5       |           | 3038.3      | 3143.8 | 3263.6                             | 3255.2 | 3401.4 |        | AVRG | R |    | 3.077E-4 |           | ng    | 3249.6 | 4    | 0.995            | 20     |       |  |  |  |  |  |
| m,p-Xylenes  | K        | 4548.0       |           | 3884.6      | 3986.5 | 4185.1                             | 4213.0 | 4327.1 |        | AVRG | R |    | 2.386E-4 |           | ng    | 4190.7 | 6    | 0.995            | 20     |       |  |  |  |  |  |
| o-Xylene     | K        | 3346.0       |           | 3169.8      | 3302.5 | 3453.8                             | 3404.6 | 3545.8 |        | AVRG | R |    | 2.967E-4 |           | ng    | 3370.4 | 4    | 0.995            | 20     |       |  |  |  |  |  |
| MTBE         | L        |              | 230.93    | 192.31      | 206.22 | 193.36                             | 191.84 | 189.55 | 173.89 | AVRG | R |    | 0.005079 |           | ng    | 196.87 | 9    | 0.995            | 20     |       |  |  |  |  |  |
| Benzene      | L        | 721.17       |           | 615.74      | 662.32 | 620.57                             | 603.31 | 584.99 |        | AVRG | R |    | 0.001576 |           | ng    | 634.69 | 8    | 0.995            | 20     |       |  |  |  |  |  |
| Toluene      | L        | 695.55       |           | 648.69      | 676.82 | 654.36                             | 634.85 | 617.66 |        | AVRG | R |    | 0.001528 |           | ng    | 654.65 | 4    | 0.995            | 20     |       |  |  |  |  |  |
| Ethylbenzene | L        | 580.84       |           | 578.69      | 620.22 | 597.42                             | 575.33 | 556.30 |        | AVRG | R |    | 0.001710 |           | ng    | 584.80 | 4    | 0.995            | 20     |       |  |  |  |  |  |
| m,p-Xylenes  | L        | 739.48       |           | 707.10      | 756.72 | 741.89                             | 711.21 | 676.21 |        | AVRG | R |    | 0.001385 |           | ng    | 722.10 | 4    | 0.995            | 20     |       |  |  |  |  |  |
| o-Xylene     | L        | 605.25       |           | 592.31      | 639.51 | 622.88                             | 595.15 | 562.15 |        | AVRG | R |    | 0.001659 |           | ng    | 602.87 | 4    | 0.995            | 20     |       |  |  |  |  |  |

CONTINUING CALIBRATION REPORT FOR 173746 GCVOA Soil  
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : QC159705 IDF : 1.0  
Seqnum : 304307304001 Filename : 213\_001 Injected : 31-JUL-2004 09:44  
Caltype :  
Standards: 04WS1386 (1000X), 04WS1342 (5000X)

| Analyte                  | Ch | Calnum       | Caldate     | Avg    |        | RF/CF    | SpkAmt   | QuantAmt | Units | %D  | Max | %D | Flags      |
|--------------------------|----|--------------|-------------|--------|--------|----------|----------|----------|-------|-----|-----|----|------------|
|                          |    |              |             | RF/CF  |        |          |          |          |       |     |     |    |            |
| MTBE                     | K  | 304299992001 | 26-JUL-2004 | 1130.4 | 1158.6 | 100.0000 | 102.4953 | ng       |       | 2   |     | 15 |            |
| MTBE                     | L  | 304299992001 | 26-JUL-2004 | 196.87 | 165.19 | 100.0000 | 83.90799 | ng       |       | -16 |     | 15 | c- *** N/A |
| Benzene                  | K  | 304299992001 | 26-JUL-2004 | 3553.3 | 3692.5 | 100.0000 | 103.9185 | ng       |       | 4   |     | 15 | u          |
| Benzene                  | L  | 304299992001 | 26-JUL-2004 | 634.69 | 612.20 | 100.0000 | 96.45756 | ng       |       | -4  |     | 15 |            |
| Toluene                  | K  | 304299992001 | 26-JUL-2004 | 3660.8 | 3939.6 | 100.0000 | 107.6167 | ng       |       | 8   |     | 15 | u          |
| Toluene                  | L  | 304299992001 | 26-JUL-2004 | 654.65 | 669.04 | 100.0000 | 102.1970 | ng       |       | 2   |     | 15 |            |
| Ethylbenzene             | K  | 304299992001 | 26-JUL-2004 | 3249.6 | 3501.6 | 100.0000 | 107.7549 | ng       |       | 8   |     | 15 | u          |
| Ethylbenzene             | L  | 304299992001 | 26-JUL-2004 | 584.80 | 612.92 | 100.0000 | 104.8088 | ng       |       | 5   |     | 15 |            |
| m,p-Xylenes              | K  | 304299992001 | 26-JUL-2004 | 4190.7 | 4518.1 | 100.0000 | 107.8109 | ng       |       | 8   |     | 15 | u          |
| m,p-Xylenes              | L  | 304299992001 | 26-JUL-2004 | 722.10 | 781.77 | 100.0000 | 108.2636 | ng       |       | 8   |     | 15 |            |
| o-Xylene                 | K  | 304299992001 | 26-JUL-2004 | 3370.4 | 3675.5 | 100.0000 | 109.0525 | ng       |       | 9   |     | 15 | u          |
| o-Xylene                 | L  | 304299992001 | 26-JUL-2004 | 602.87 | 646.95 | 100.0000 | 107.3109 | ng       |       | 7   |     | 15 |            |
| Trifluorotoluene (FID)   | J  | 304262792001 | 30-JUN-2004 | 1896.2 | 1799.7 | 450.0000 | 427.1050 | ng       |       | -5  |     | 15 |            |
| Bromofluorobenzene (FID) | J  | 304262792001 | 30-JUN-2004 | 1250.0 | 1208.1 | 450.0000 | 434.9134 | ng       |       | -3  |     | 15 |            |
| Trifluorotoluene (PID)   | K  | 304262792001 | 30-JUN-2004 | 1015.3 | 962.51 | 450.0000 | 426.6099 | ng       |       | -5  |     | 15 | u          |
| Trifluorotoluene (PID)   | L  | 304262792001 | 30-JUN-2004 | 201.79 | 169.93 | 450.0000 | 378.9535 | ng       |       | -16 |     | 15 | c- PAS     |
| Bromofluorobenzene (PID) | K  | 304262792001 | 30-JUN-2004 | 2270.2 | 2183.7 | 450.0000 | 432.8495 | ng       |       | -4  |     | 15 | u          |
| Bromofluorobenzene (PID) | L  | 304262792001 | 30-JUN-2004 | 432.26 | 378.54 | 450.0000 | 394.0696 | ng       |       | -12 |     | 15 |            |

mmr sf2601

inhouse limits

55-135  
TFT (PID) 71-135  
58-135  
BFB (PID) 73-143  
mmr  
sf2601

CONTINUING CALIBRATION REPORT FOR 173746 GCVOA Soil  
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : QC259704 IDF : 1.0  
Seqnum : 304307304002 Filename : 213\_002 Injected : 31-JUL-2004 10:20  
Caltype :  
Standards: 04WS1388 (1000X), 04WS1342 (5000X)

| Analyte                  | Ch | Calnum       | Caldate     | Avg    |   | SpkAmt | QuantAmt | Units    | %D Max | %D | Flags                       |
|--------------------------|----|--------------|-------------|--------|---|--------|----------|----------|--------|----|-----------------------------|
|                          |    |              |             | RF/CF  | R |        |          |          |        |    |                             |
| Gasoline C7-C12          | J  | 304043847001 | 31-JAN-2004 | 1807.9 | 2 | 28.4   | 10000.00 | 11219.99 | ng     | 12 | 15 u                        |
| Gasoline C6-C10          | J  | 304043847001 | 31-JAN-2004 | 1794.4 | 2 | 15.6   | 10000.00 | 11232.80 | ng     | 12 | 15                          |
| Gasoline C6-C12          | J  | 304043847001 | 31-JAN-2004 | 2334.1 | 2 | 71.1   | 10000.00 | 11443.80 | ng     | 14 | 15                          |
| Trifluorotoluene (FID)   | J  | 304262792001 | 30-JUN-2004 | 1896.2 | 2 | 81.5   | 450.0000 | 660.0908 | ng     | 47 | 15 c+ u <i>FF reduction</i> |
| Bromofluorobenzene (FID) | J  | 304262792001 | 30-JUN-2004 | 1250.0 | 1 | 49.3   | 450.0000 | 485.7546 | ng     | 8  | 15 u <i>w/std</i>           |

*mm 8/2/04*

*TFT (FID) 71-138%*  
*BFB (FID) 73-143%*

CONTINUING CALIBRATION REPORT FOR 173746 GCVOA Soil  
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : mb:xe IDF : 1.0  
Seqnum : 304307304013 Filename : 213\_013 Injected : 31-JUL-2004 17:25  
Caltype :  
Standards: 04WS1386 (666.7X), 04WS1342 (1000X)

| Analyte                  | Ch | Calnum       | Caldate     | Avg<br>RF/CF | RF/CF  | SpkAmt   | QuantAmt | Units | %D Max | %D Flags          |
|--------------------------|----|--------------|-------------|--------------|--------|----------|----------|-------|--------|-------------------|
| Trifluorotoluene (FID)   | J  | 304262792001 | 30-JUN-2004 | 1896.2       | 1794.7 | 450.0000 | 425.9102 | ng    | -5     | 15                |
| Bromofluorobenzene (FID) | J  | 304262792001 | 30-JUN-2004 | 1250.0       | 1173.6 | 450.0000 | 422.5050 | ng    | -6     | 15                |
| MTBE                     | K  | 304299992001 | 26-JUL-2004 | 1130.4       | 1066.0 | 150.0000 | 141.4566 | ng    | -6     | 15                |
| Benzene                  | K  | 304299992001 | 26-JUL-2004 | 3553.3       | 3531.3 | 150.0000 | 149.0729 | ng    | -1     | 15                |
| Toluene                  | K  | 304299992001 | 26-JUL-2004 | 3660.8       | 3835.2 | 150.0000 | 157.1484 | ng    | 5      | 15                |
| Ethylbenzene             | K  | 304299992001 | 26-JUL-2004 | 3249.6       | 3327.8 | 150.0000 | 153.6096 | ng    | 2      | 15                |
| m,p-Xylenes              | K  | 304299992001 | 26-JUL-2004 | 4190.7       | 4331.9 | 150.0000 | 155.0525 | ng    | 3      | 15                |
| o-Xylene                 | K  | 304299992001 | 26-JUL-2004 | 3370.4       | 3543.3 | 150.0000 | 157.6959 | ng    | 5      | 15                |
| Trifluorotoluene (PID)   | K  | 304262792001 | 30-JUN-2004 | 1015.3       | 938.47 | 450.0000 | 415.9551 | ng    | -8     | 15                |
| Bromofluorobenzene (PID) | K  | 304262792001 | 30-JUN-2004 | 2270.2       | 2127.9 | 450.0000 | 421.7833 | ng    | -6     | 15                |
| MTBE                     | L  | 304299992001 | 26-JUL-2004 | 196.87       | 167.95 | 150.0000 | 127.9616 | ng    | -15    | 15                |
| Benzene                  | L  | 304299992001 | 26-JUL-2004 | 634.69       | 616.07 | 150.0000 | 145.5996 | ng    | -3     | 15                |
| Toluene                  | L  | 304299992001 | 26-JUL-2004 | 654.65       | 655.89 | 150.0000 | 150.2828 | ng    | 0      | 15                |
| Ethylbenzene             | L  | 304299992001 | 26-JUL-2004 | 584.80       | 598.87 | 150.0000 | 153.6095 | ng    | 2      | 15                |
| m,p-Xylenes              | L  | 304299992001 | 26-JUL-2004 | 722.10       | 761.59 | 150.0000 | 158.2038 | ng    | 5      | 15                |
| o-Xylene                 | L  | 304299992001 | 26-JUL-2004 | 602.87       | 631.08 | 150.0000 | 157.0170 | ng    | 5      | 15                |
| Trifluorotoluene (PID)   | L  | 304262792001 | 30-JUN-2004 | 201.79       | 166.33 | 450.0000 | 370.9409 | ng    | -18    | 15 c- <i>miss</i> |
| Bromofluorobenzene (PID) | L  | 304262792001 | 30-JUN-2004 | 432.26       | 374.55 | 450.0000 | 389.9198 | ng    | -13    | 15                |

Inhouse Limits  
TFT 55-135%  
O413 38-135%  
mmn 8/2/04

CONTINUING CALIBRATION REPORT FOR 173746 GCVOA Soil  
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : tvh IDF : 1.0  
Seqnum : 304307304015 Filename : 213\_015 Injected : 31-JUL-2004 18:36  
Caltype :  
Standards: 04WS1388 (666.7X), 04WS1342 (500X)

| Analyte                  | Ch | Calnum       | Caldate     | Avg    |   | R    | /CF      | SpkAmt   | QuantAmt | Units | %D Max | %D | Flags                      |
|--------------------------|----|--------------|-------------|--------|---|------|----------|----------|----------|-------|--------|----|----------------------------|
|                          |    |              |             | RF/CF  | R |      |          |          |          |       |        |    |                            |
| Gasoline C6-C10          | J  | 304043847001 | 31-JAN-2004 | 1794.4 | 1 | 37.6 | 15000.00 | 16197.16 | ng       |       | 8      | 15 |                            |
| Gasoline C6-C12          | J  | 304043847001 | 31-JAN-2004 | 2334.1 | 2 | 39.5 | 15000.00 | 16320.28 | ng       |       | 9      | 15 |                            |
| Gasoline C7-C12          | J  | 304043847001 | 31-JAN-2004 | 1807.9 | 1 | 13.3 | 15000.00 | 15874.71 | ng       |       | 6      | 15 |                            |
| Trifluorotoluene (FID)   | J  | 304262792001 | 30-JUN-2004 | 1896.2 | 2 | 72.3 | 450.0000 | 705.3776 | ng       |       | 57     | 15 | c+ FID calibration w/ std. |
| Bromofluorobenzene (FID) | J  | 304262792001 | 30-JUN-2004 | 1250.0 | 1 | 61.2 | 450.0000 | 454.0406 | ng       |       | 1      | 15 |                            |
| Trifluorotoluene (PID)   | K  | 304262792001 | 30-JUN-2004 | 1015.3 | 1 | 56.2 | 450.0000 | 512.4507 | ng       |       | 14     | 15 |                            |
| Bromofluorobenzene (PID) | K  | 304262792001 | 30-JUN-2004 | 2270.2 | 2 | 21.4 | 450.0000 | 400.6673 | ng       |       | -11    | 15 |                            |
| Trifluorotoluene (PID)   | L  | 304262792001 | 30-JUN-2004 | 201.79 | 3 | 8.44 | 450.0000 | 799.3572 | ng       |       | 78     | 15 | c+ N/A                     |
| Bromofluorobenzene (PID) | L  | 304262792001 | 30-JUN-2004 | 432.26 | 3 | 8.10 | 450.0000 | 393.6095 | ng       |       | -13    | 15 |                            |

mmr 8/2/04

TEI (FID) 71-133%  
BFI3 (FID) 73 143%

# Curtis & Tompkins Laboratories      Sample Batch Report

Batch Number: 93368  
 Date Started: 31-JUL-2004  
 Batched by : Jason Poulton

Analysis : N/A  
 Bgroup : TVH  
 Department : GC Organics

| Sample     | Type | Client        | Matrix   | Analyses  | Due Date    |
|------------|------|---------------|----------|-----------|-------------|
| 173746-005 |      | Geologica     | Soil     | BTXE, TVH | 03-AUG-2004 |
| 173746-010 |      | Geologica     | Soil     | BTXE, TVH | 03-AUG-2004 |
| 173746-015 |      | Geologica     | Soil     | BTXE, TVH | 03-AUG-2004 |
| 173753-001 |      | MWH           | Miscell. | BTXE, TVH | 06-AUG-2004 |
| 173754-003 |      | MWH           | Miscell. | BTXE, TVH | 06-AUG-2004 |
| QC259703   | MB   |               | Soil     |           |             |
| QC259704   | LCS  |               | Soil     |           |             |
| QC259705   | LCS  |               | Soil     |           |             |
| QC259706   | MS   | of 173746-005 | Soil     |           |             |
| QC259707   | MSD  | of 173746-005 | Soil     |           |             |

SEQUENCE SUMMARY  
Curtis & Tompkins Laboratories

Sequence: 304307304 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE  
Analytical Method: EPA 8015B SOP Version: TVH BTXE rv11  
Analytical Method: EPA 8021B SOP Version: TVH BTXE rv11  
Begun: 31-JUL-2004

| #   | Filename Type | Sample Name       | Batch Matrix Analyzed | IDF               | IOC SPK uL | Y/L  | PH | Stds Used | >LR    |
|-----|---------------|-------------------|-----------------------|-------------------|------------|------|----|-----------|--------|
| 001 | 213_001       | CCV/LCS QC259705  | 93368 Soil            | 31-JUL-2004 09:44 | 1.0        | 5000 | 1  | 1 2       | AS-USE |
| 002 | 213_002       | CCV/LCS QC259704  | 93368 Soil            | 31-JUL-2004 10:20 | 1.0        | 5000 | 1  | 3 2       | AS-USE |
| 003 | 213_003       | BLANK QC259703    | 93368 Soil            | 31-JUL-2004 10:55 | 1.0        | 5000 | 4  | 2         | 1/2 PL |
| 004 | 213_004       | MS 173746-005     | 93368 Soil            | 31-JUL-2004 12:03 | 1.0        | 5000 | 2  | 2         | AS-USE |
| 005 | 213_005       | SAMPLE 173746-010 | 93368 Soil            | 31-JUL-2004 12:38 | 1.0        | 5000 | 1  | 2         | AS-USE |
| 006 | 213_006       | SAMPLE 173746-015 | 93368 Soil            | 31-JUL-2004 13:14 | 1.0        | 5000 | 1  | 2         | AS-USE |
| 007 | 213_007       | X meoh blk        | 93368                 | 31-JUL-2004 13:50 | 5.0        | 5000 | 3  | 2         | AS-USE |
| 008 | 213_008       | SAMPLE 173753-001 | 93368 Miscel          | 31-JUL-2004 14:26 | 20.0       | 5000 | 1  | 2         | AS-USE |
| 009 | 213_009       | SAMPLE 173754-003 | 93368 Miscel          | 31-JUL-2004 15:02 | 5.0        | 5000 | 1  | 2         | AS-USE |
| 010 | 213_010       | X ib              | 31-JUL-2004 15:37     | 1.0               | 5000       | 1    | 2  | AS-USE    | AS-USE |
| 011 | 213_011       | MS QC259706       | 93368 Soil            | 31-JUL-2004 16:13 | 1.0        | 5000 | 2  | 2         | AS-USE |
| 012 | 213_012       | MSD QC259707      | 93368 Soil            | 31-JUL-2004 16:49 | 1.0        | 5000 | 2  | 2         | AS-USE |
| 013 | 213_013       | CCV mbtxe         | 93368                 | 31-JUL-2004 17:25 | 1.0        | 5000 | 1  | 2         | AS-USE |
| 014 | 213_014       | CCV mbtxe         | 93368                 | 31-JUL-2004 18:01 | 1.0        | 5000 | 1  | 2         | AS-USE |
| 015 | 213_015       | CCV tvh           | 93368                 | 31-JUL-2004 18:36 | 1.0        | 5000 | 1  | 2         | AS-USE |
| 016 | 213_016       | CCV tvh           | 93368                 | 31-JUL-2004 19:12 | 1.0        | 5000 | 1  | 2         | AS-USE |

stand used in GC EM 128974-M104164

Stds used: 1-04WS1386 2-04WS1342 3-04WS1388

Analyst: *Michael G. Furf* Date: 08/02/04  
Page 1 of 1

Continued on Page

*Michael G. Furf*

*Michael G. Furf*  
Signed

08/02/04  
Date

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*[Signature]*  
Signed

8/2/04  
Date

SEQUENCE SUMMARY  
Curtis & Tompkins LaboratoriesSequence: 304043847 Instrument: GC04  
Analytical Method: EPA 8015B  
Analytical Method: EPA 8021BGas Chromatograph #4 TVH/BTXE  
SOP Version: TEST TVH  
SOP Version: TEST BTXE

Begun: 30-JAN-2004

| #   | Filename | Type | Sample    | Batch Matrix Analyzed | IDF                   | IOC SPK uL | VL pH | Stds Used | >IR      |
|-----|----------|------|-----------|-----------------------|-----------------------|------------|-------|-----------|----------|
| 001 | 030_001  | X    | ib        |                       | 30-JAN-2004 10:47 1.0 |            |       | 1         |          |
| 002 | 030_002  | ICAL | tft/bfb 1 |                       | 30-JAN-2004 11:22 1.0 |            |       | 2         | PASS     |
| 003 | 030_003  | ICAL | tft/bfb 2 |                       | 30-JAN-2004 12:10 1.0 |            |       | 3         |          |
| 004 | 030_004  | ICAL | tft/bfb 3 |                       | 30-JAN-2004 12:46 1.0 |            |       | 4         |          |
| 005 | 030_005  | ICAL | tft/bfb 4 |                       | 30-JAN-2004 13:38 1.0 |            |       | 5         |          |
| 006 | 030_006  | ICAL | tft/bfb 5 |                       | 30-JAN-2004 14:14 1.0 |            |       | 6         |          |
| 007 | 030_007  | ICAL | btxe 1    |                       | 30-JAN-2004 14:50 1.0 |            |       | 7         | Not used |
| 008 | 030_008  | ICAL | btxe 1    |                       | 30-JAN-2004 15:26 1.0 |            |       | 8         | PASS     |
| 009 | 030_009  | ICAL | mtbe 1    |                       | 30-JAN-2004 16:03 1.0 |            |       | 9         |          |
| 010 | 030_010  | ICAL | mbtbe 2   |                       | 30-JAN-2004 18:48 1.0 |            |       | 10        |          |
| 011 | 030_011  | ICAL | mbtbe 3   |                       | 30-JAN-2004 19:24 1.0 |            |       | 11        |          |
| 012 | 030_012  | ICAL | mbtbe 4   |                       | 30-JAN-2004 20:00 1.0 |            |       | 12        |          |
| 013 | 030_013  | ICAL | mbtbe 5   |                       | 30-JAN-2004 20:36 1.0 |            |       | 13        |          |
| 014 | 030_014  | ICAL | mbtbe 6   |                       | 30-JAN-2004 21:12 1.0 |            |       | 14        |          |
| 015 | 030_015  | ICAL | mtbe 7    |                       | 30-JAN-2004 21:48 1.0 |            |       | 15        |          |
| 016 | 030_016  | X    | ib        |                       | 30-JAN-2004 22:23 1.0 |            |       | 16        |          |
| 017 | 030_017  | X    | mbtbe     |                       | 30-JAN-2004 22:59 1.0 | 5000       |       | 17        |          |
| 018 | 030_018  | ICV  | mbtbe     |                       | 30-JAN-2004 23:35 1.0 | 5000       |       | 18        | PASS     |
| 019 | 030_019  | X    | ib        |                       | 31-JAN-2004 00:10 1.0 |            |       | 19        | Not used |
| 020 | 030_020  | ICAL | gas 1     |                       | 31-JAN-2004 00:46 1.0 |            |       | 20        | PASS     |
| 021 | 030_021  | X    | gas 1     |                       | 31-JAN-2004 01:21 1.0 |            |       | 21        |          |
| 022 | 030_022  | ICAL | gas 2     |                       | 31-JAN-2004 01:57 1.0 |            |       | 22        | PASS     |
| 023 | 030_023  | ICAL | gas 3     |                       | 31-JAN-2004 02:32 1.0 |            |       | 23        |          |
| 024 | 030_024  | ICAL | gas 4     |                       | 31-JAN-2004 03:07 1.0 |            |       | 24        |          |
| 025 | 030_025  | ICAL | gas 5     |                       | 31-JAN-2004 03:43 1.0 |            |       | 25        |          |
| 026 | 030_026  | X    | ib        |                       | 31-JAN-2004 04:18 1.0 |            |       | 26        |          |
| 027 | 030_027  | ICV  | gas       |                       | 31-JAN-2004 04:53 1.0 | 5000       |       | 27        | PASS     |
| 028 | 030_028  | X    | gas       |                       | 31-JAN-2004 05:28 1.0 |            |       | 28        |          |
| 029 | 030_029  | X    | ib        |                       | 31-JAN-2004 06:03 1.0 |            |       | 29        |          |

Stds used: 1-03WS0977 2-04WS0021 3-04WS0022 4-04WS0023 5-04WS0024 6-04WS0025 7-04WS0192 8-03WS204 9-04WS0193 10-04WS0194 11-04WS0195 12-04WS0142 13-03WS1660 14-03WS1661  
15-03WS1662 16-03WS1663 17-04WS0146 18-02BS420 19-02BS421Analyst: Micail M. Pugh Date: 02/03/04  
Page 1 of 2SEQUENCE SUMMARY  
Curtis & Tompkins LaboratoriesSequence: 304043847 Instrument: GC04  
Analytical Method: EPA 8015B  
Analytical Method: EPA 8021BGas Chromatograph #4 TVH/BTXE  
SOP Version: TEST TVH  
SOP Version: TEST BTXE

Begun: 30-JAN-2004

| #   | Filename | Type | Sample   | Batch Matrix Analyzed | IDF                   | IOC SPK uL | VL pH | Stds Used | >IR |
|-----|----------|------|----------|-----------------------|-----------------------|------------|-------|-----------|-----|
| 030 | 030_030  | X    | carbmark |                       | 31-JAN-2004 06:39 1.0 |            |       | 18 19 8   | USE |

Stds used: 1-03WS0977 2-04WS0021 3-04WS0022 4-04WS0023 5-04WS0024 6-04WS0025 7-04WS0192 8-03WS204 9-04WS0193 10-04WS0194 11-04WS0195 12-04WS0142 13-03WS1660 14-03WS1661  
15-03WS1662 16-03WS1663 17-04WS0146 18-02BS420 19-02BS421Analyst: Micail M. Pugh Date: 02/03/04  
Page 2 of 2

Continued on Page

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Micail M. Pugh  
Signed02/03/04  
Date[Signature]  
Signed

Signed

2/3/04  
Date



SEQUENCE SUMMARY  
Curtis & Tompkins LaboratoriesSequence: 304262792 Instrument: GC04  
Analytical Method: EPA 8015B  
Analytical Method: EPA 8021BGas Chromatograph #4 TVH/BTXE  
SOP Version: TVH BTXE\_rv11

SOP Version: TVH BTXE\_rv11

Begun: 30-JUN-2004

| #   | Filename Type | Sample | Batch Matrix Analyzed | IDF         | IOC   | SPK | uL | VL | pH | Std's Used |
|-----|---------------|--------|-----------------------|-------------|-------|-----|----|----|----|------------|
| 001 | 182_001       | X      | ib                    | 30-JUN-2004 | 11:52 | 1.0 |    |    |    | 1          |
| 002 | 182_002       | ICAL   | tft/bfb1              | 30-JUN-2004 | 12:27 | 1.0 |    |    |    | 2          |
| 003 | 182_003       | ICAL   | tft/bfb2              | 30-JUN-2004 | 13:03 | 1.0 |    |    |    | 3          |
| 004 | 182_004       | ICAL   | tft/bfb3              | 30-JUN-2004 | 13:39 | 1.0 |    |    |    | 4          |
| 005 | 182_005       | ICAL   | tft/bfb4              | 30-JUN-2004 | 14:16 | 1.0 |    |    |    | 5          |
| 006 | 182_006       | ICAL   | tft/bfb5              | 30-JUN-2004 | 15:00 | 1.0 |    |    |    | 6          |

&gt;IR

Std's used: 1=04WS1076 2=04WS1076 3=04WS1077 4=04WS1078 5=04WS1079 6=04WS1080  
Analyst: *[Signature]* Date: 6.30.04

Continued on Page

Signed

Date

6.30.04

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Date

7/1/04

SEQUENCE SUMMARY  
Curtis & Tompkins Laboratories

Sequence: 304299992 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE  
Analytical Method: EPA 8015B SOP Version: TVH BTXE rv11  
Analytical Method: EPA 8021B SOP Version: TVH BTXE rv11

Begun: 26-JUL-2004

| #   | Filename | Type | Sample | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL   | VL | pH | Stds | Used | >LR      |
|-----|----------|------|--------|-------|--------|-------------|-------|-----|-----|------|----|----|------|------|----------|
| 001 | 208_001  | X    | ib     |       |        | 26-JUL-2004 | 07:52 | 1.0 |     |      |    |    | 1    |      |          |
| 002 | 208_002  | ICAL | btxe1  |       |        | 26-JUL-2004 | 08:27 | 1.0 |     |      |    |    | 2    | 1    | PPSS/USE |
| 003 | 208_003  | ICAL | mtbe1  |       |        | 26-JUL-2004 | 09:04 | 1.0 |     |      |    |    | 3    | 1    |          |
| 004 | 208_004  | ICAL | mbtbe2 |       |        | 26-JUL-2004 | 09:40 | 1.0 |     |      |    |    | 3    | 1    |          |
| 005 | 208_005  | ICAL | mbtbe3 |       |        | 26-JUL-2004 | 10:15 | 1.0 |     |      |    |    | 3    | 1    |          |
| 006 | 208_006  | ICAL | mbtbe4 |       |        | 26-JUL-2004 | 10:51 | 1.0 |     |      |    |    | 4    | 1    |          |
| 007 | 208_007  | ICAL | mbtbe5 |       |        | 26-JUL-2004 | 11:26 | 1.0 |     |      |    |    | 4    | 1    |          |
| 008 | 208_008  | ICAL | mbtbe6 |       |        | 26-JUL-2004 | 12:02 | 1.0 |     |      |    |    | 4    | 1    |          |
| 009 | 208_009  | ICAL | mtbe7  |       |        | 26-JUL-2004 | 12:38 | 1.0 |     |      |    |    | 5    | 1    | ✓        |
| 010 | 208_010  | X    | ib     |       |        | 26-JUL-2004 | 13:13 | 1.0 |     |      |    |    | 1    |      |          |
| 011 | 208_011  | ICV  | mbtbe  |       |        | 26-JUL-2004 | 13:49 | 1.0 |     | 5000 |    |    | 6    | 1    | USE      |
| 012 | 208_012  | X    | mbtbe  |       |        | 26-JUL-2004 | 14:25 | 1.0 |     |      |    |    | 6    | 1    |          |
| 013 | 208_013  | X    | ib     |       |        | 27-JUL-2004 | 08:51 | 1.0 |     |      |    |    | 1    |      |          |

Stds used: 1=04WS1342 2=04WS1273 3=04WS1274 4=04WS1275 5=04WS1276 6=04WS1075

Analyst: Micaela G. Gentry Date: 07/28/04  
Page 1 of 1Micaela G. Gentry 07/28/04

Continued on Page

Micaela G. Gentry

Signed

07/25/04

Date

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Bob

Signed

M. Gentry

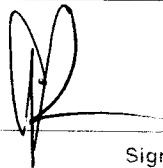
7/28/04

Date

| SAMPLE ID        | USE ID | JAR  | Weight (g) | Comp | Nat Soil | INITIALS | DATE    |
|------------------|--------|------|------------|------|----------|----------|---------|
| 173702           | 016    | A    | 0.90       | NO   | NO       | APP      | 7/30/04 |
|                  | 017    |      | 0.90       |      |          |          |         |
|                  | 018    |      | 1.08       |      |          |          |         |
|                  | 019    |      | 1.04       |      |          |          |         |
|                  | 020    | *    | 0.94       | *    | *        | *        | *       |
| 173721           | 002    | A    | 5.07       | Yes  | NO       | APP      | 7/30/04 |
|                  | 002    | B    | 4.95       |      |          |          |         |
|                  | 002    | C    | 4.95       |      |          |          |         |
|                  | 002    | D    | 5.18       |      |          |          |         |
|                  | 002    | E    | 5.08       |      |          |          |         |
|                  | 002    | F    | 4.92       |      |          |          |         |
|                  | 002    | G    | 4.97       |      |          |          |         |
|                  | 002    | H    | 4.98       |      |          |          |         |
|                  | 002    | comp | 1.05       |      |          |          |         |
| MS (724 - 002)   |        |      | 1.09       |      |          |          |         |
| MSD              |        |      | 1.04       |      |          |          |         |
| 173627           | 001    | A    | 1.00       | NO   | NO       | APP      | 7/30/04 |
| 173746           | 005    | Comp | 1.01       | Yes  | NO       | OR       | 7.31m   |
| MS of 173746-005 | Comp   |      | 1.02       |      |          |          |         |
| MS of 173746-005 | Comp   |      | 1.03       |      |          |          |         |
| 173746           | 010    | Comp | 1.05       |      |          |          |         |
|                  | 015    | Comp | 1.03       |      |          |          |         |
| 173762           | 001    | A    | 4.91       | NO   | NO       | APP      | 8/2/04  |
|                  | 001    | B    | 4.98       |      |          |          |         |
|                  | 001    | C    | 5.07       |      |          |          |         |
|                  | 001    | D    | 4.97       |      |          |          |         |
|                  | 001    | Comp | 1.04       |      |          |          |         |
| MS 762 - 001     | Comp   |      | 0.98       |      |          |          |         |
| MSD              |        |      | 0.90       |      |          |          |         |
| 173762           | 002    | A    | 5.07       |      |          |          |         |
|                  | 002    | B    | 4.97       |      |          |          |         |
|                  | 002    | C    | 4.96       |      |          |          |         |
|                  | 002    | D    | 5.10       |      |          |          |         |
|                  | 002    | Comp | 0.91       |      |          |          |         |

Continued on Page

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Signed

8/2/04

Date

24

Signed

Date

## **TEH results & QC Summary**

# Total Extractable Hydrocarbons

|           |           |           |                         |
|-----------|-----------|-----------|-------------------------|
| Lab #:    | 173746    | Location: | GA-9 Stockpile Sampling |
| Client:   | Geologica | Prep:     | SHAKER TABLE            |
| Project#: | STANDARD  | Analysis: | EPA 8015B               |
| Matrix:   | Soil      | Sampled:  | 07/30/04                |
| Units:    | mg/Kg     | Received: | 07/30/04                |
| Diln Fac: | 1.000     | Prepared: | 07/31/04                |
| Batch#:   | 93369     | Analyzed: | 08/01/04                |

Field ID: GA9SSCOMP501-504  
Type: SAMPLE  
Lab ID: 173746-005

Basis: dry  
Moisture: 2%  
Cleanup Method: EPA 3630C

| Analyte           | Result | RL  |
|-------------------|--------|-----|
| Diesel C12-C24    | ND     | 1.0 |
| Motor Oil C24-C36 | ND     | 5.1 |

| Surrogate  | %REC | Limits |
|------------|------|--------|
| Hexacosane | 56   | 52-131 |

Field ID: DUP073004COMP501-504  
Type: SAMPLE  
Lab ID: 173746-010

Basis: dry  
Moisture: 2%  
Cleanup Method: EPA 3630C

| Analyte           | Result | RL  |
|-------------------|--------|-----|
| Diesel C12-C24    | ND     | 1.0 |
| Motor Oil C24-C36 | ND     | 5.1 |

| Surrogate  | %REC | Limits |
|------------|------|--------|
| Hexacosane | 62   | 52-131 |

Field ID: GA9SSCOMP505-508  
Type: SAMPLE  
Lab ID: 173746-015

Basis: dry  
Moisture: 3%  
Cleanup Method: EPA 3630C

| Analyte           | Result | RL  |
|-------------------|--------|-----|
| Diesel C12-C24    | ND     | 1.0 |
| Motor Oil C24-C36 | ND     | 5.1 |

| Surrogate  | %REC | Limits |
|------------|------|--------|
| Hexacosane | 73   | 52-131 |

Type: BLANK  
Lab ID: QC259708

Basis: as received  
Cleanup Method: EPA 3630C

| Analyte           | Result | RL  |
|-------------------|--------|-----|
| Diesel C12-C24    | ND     | 1.0 |
| Motor Oil C24-C36 | ND     | 5.0 |

| Surrogate  | %REC | Limits |
|------------|------|--------|
| Hexacosane | 57   | 52-131 |

## Batch QC Report

| Total Extractable |             | Hydrocarbons |                         |
|-------------------|-------------|--------------|-------------------------|
| Lab #:            | 173746      | Location:    | GA-9 Stockpile Sampling |
| Client:           | Geologica   | Prep:        | SHAKER TABLE            |
| Project#:         | STANDARD    | Analysis:    | EPA 8015B               |
| Type:             | LCS         | Diln Fac:    | 1.000                   |
| Lab ID:           | QC259709    | Batch#:      | 93369                   |
| Matrix:           | Soil        | Prepared:    | 07/31/04                |
| Units:            | mg/Kg       | Analyzed:    | 08/01/04                |
| Basis:            | as received |              |                         |

Cleanup Method: EPA 3630C

| Analyte        | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C12-C24 | 50.31  | 34.55  | 69   | 55-128 |

| Surrogate  | %REC | Limits |
|------------|------|--------|
| Hexacosane | 59   | 52-131 |

# INITIAL CALIBRATION REPORT FOR 173746 TEH Soil Curtis & Tompkins Laboratories

Instrument: GC15B      Gas Chromatograph #15 (Channel B) TEH      Reviewed By: CW  
 Calnum: 164283116001      Name: diesel      Type: (normal)      Date: 14-JUL-2004 15:05 Inj Vol (uL): 3

Calibration levels:

| # | Filename | Segnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 196b002  | 164283116002 | ds1       | 14-JUL-2004 15:05 | 04WS1223  |
| 2 | 196b003  | 164283116003 | ds1       | 14-JUL-2004 15:33 | 04WS1222  |
| 3 | 196b004  | 164283116004 | ds1       | 14-JUL-2004 16:02 | 04WS1221  |
| 4 | 196b005  | 164283116005 | ds1       | 14-JUL-2004 16:31 | 04WS1220  |
| 5 | 196b006  | 164283116006 | ds1       | 14-JUL-2004 17:00 | 04WS1219  |
| 6 | 196b007  | 164283116007 | ds1       | 14-JUL-2004 17:29 | 04WS1218  |
| 7 | 196b008  | 164283116008 | ds1       | 14-JUL-2004 17:58 | 04WS1217  |

| Analyte        | L1    | L2    | L3    | L4    | L5    | L6    | L7    | Type X | a0       | a1       | a2       | units | avg   | RSD | MnR^2 | MxRSD | Flags |
|----------------|-------|-------|-------|-------|-------|-------|-------|--------|----------|----------|----------|-------|-------|-----|-------|-------|-------|
| Diesel C10-C22 | 18446 | 21499 | 20824 | 20800 | 22542 | 21235 | 21471 | AVRG R | 4.768E-5 | 4.768E-5 | 4.768E-5 | mg/L  | 20974 | 6   | 0.995 | 20    |       |
| Diesel C10-C24 | 18446 | 21647 | 20984 | 20983 | 22719 | 21423 | 21646 | AVRG R | 4.735E-5 | 4.735E-5 | 4.735E-5 | mg/L  | 21121 | 6   | 0.995 | 20    |       |
| Diesel C10-C28 | 18446 | 21651 | 21007 | 21027 | 22770 | 21472 | 21698 | AVRG R | 4.727E-5 | 4.727E-5 | 4.727E-5 | mg/L  | 21153 | 6   | 0.995 | 20    |       |
| Diesel C10-C20 | 18446 | 20933 | 20228 | 20231 | 21906 | 20674 | 20874 | AVRG R | 4.885E-5 | 4.885E-5 | 4.885E-5 | mg/L  | 20470 | 5   | 0.995 | 20    |       |
| Diesel C12-C22 | 15496 | 18153 | 17621 | 17586 | 19118 | 18365 | 18507 | AVRG R | 5.607E-5 | 5.607E-5 | 5.607E-5 | mg/L  | 17835 | 6   | 0.995 | 20    |       |
| Diesel C12-C24 | 15496 | 18301 | 17781 | 17768 | 19295 | 18553 | 18683 | AVRG R | 5.561E-5 | 5.561E-5 | 5.561E-5 | mg/L  | 17983 | 7   | 0.995 | 20    |       |
| Diesel C12-C32 | 15496 | 18306 | 17804 | 17812 | 19346 | 18604 | 18740 | AVRG R | 5.551E-5 | 5.551E-5 | 5.551E-5 | mg/L  | 18016 | 7   | 0.995 | 20    |       |

# INITIAL CALIBRATION REPORT FOR 173746 TEH Soil Curtis & Tompkins Laboratories

Instrument: GC15B      Gas Chromatograph #15 (Channel B) TEH      Reviewed By: CW  
 Calnum: 164283116002      Name: motoroil      Type: (normal)      Date: 14-JUL-2004 18:57 Inj Vol (uL): 3

Calibration levels:

| # | Filename | Segnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 196b010  | 164283116010 | mo        | 14-JUL-2004 18:57 | 04WS1208  |
| 2 | 196b011  | 164283116011 | mo        | 14-JUL-2004 19:25 | 04WS1209  |
| 3 | 196b012  | 164283116012 | mo        | 14-JUL-2004 19:54 | 04WS1210  |
| 4 | 196b013  | 164283116013 | mo        | 14-JUL-2004 20:23 | 04WS1211  |
| 5 | 196b014  | 164283116014 | mo        | 14-JUL-2004 20:52 | 04WS1212  |

| Analyte           | L1    | L2    | L3    | L4    | L5    | Type | X | a0 | a1       | a2 | units | avg   | %RSD | MnR^2 | MxRSD | Flags |
|-------------------|-------|-------|-------|-------|-------|------|---|----|----------|----|-------|-------|------|-------|-------|-------|
| Motor Oil C20-C36 | 17004 | 19895 | 19205 | 17449 | 15242 | AVRG | R |    | 5.631E-5 |    | mg/L  | 17759 | 10   | 0.995 | 20    |       |
| Motor Oil C22-C32 | 14644 | 16188 | 16058 | 15185 | 13283 | AVRG | R |    | 6.635E-5 |    | mg/L  | 15072 | 8    | 0.995 | 20    |       |
| Motor Oil C22-C36 | 14644 | 17639 | 16936 | 15683 | 13355 | AVRG | R |    | 6.389E-5 |    | mg/L  | 15651 | 11   | 0.995 | 20    |       |
| Motor Oil C24-C36 | 11123 | 14055 | 13287 | 12446 | 10036 | AVRG | R |    | 8.204E-5 |    | mg/L  | 12189 | 13   | 0.995 | 20    |       |



INITIAL CALIBRATION REPORT FOR 173746 TEH Soil  
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: CW  
Calnum: 164283116004 Name: hxcs Type: (normal) Date: 14-JUL-2004 22:18 Inj Vol (uL): 3

Calibration levels:

| # | Filename | Segnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 196b017  | 164283116017 | hex       | 14-JUL-2004 22:18 | 04WS0533  |
| 2 | 196b018  | 164283116018 | hex       | 14-JUL-2004 22:47 | 04WS0534  |
| 3 | 196b019  | 164283116019 | hex       | 14-JUL-2004 23:16 | 04WS0535  |
| 4 | 196b020  | 164283116020 | hex       | 14-JUL-2004 23:44 | 04WS0536  |
| 5 | 196b021  | 164283116021 | hex       | 15-JUL-2004 00:13 | 04WS0537  |

| Analyte    | L1    | L2    | L3    | L4    | L5    | Type X | a0       | a1       | a2 | units | avg   | r^2 | %RSD  | MnR^2 | MaxRSD | Flags |
|------------|-------|-------|-------|-------|-------|--------|----------|----------|----|-------|-------|-----|-------|-------|--------|-------|
| Hexacosane | 22104 | 24448 | 23772 | 23458 | 24259 | AVRG R | 4.236E-5 | 4.236E-5 |    | mg/L  | 23609 | 4   | 0.995 | 20    |        |       |

CONTINUING CALIBRATION SUMMARY FOR 173746 TEH Soil  
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       | SpkAmt | QntAmt | Units | %D Max | %D | Flags        |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|--------|----|--------------|
|        |    |              |                   |              |             | RF/CF | RF/CF |        |        |       |        |    |              |
| GC11A  | A  | 114309132002 | 01-AUG-2004 16:41 | 114306371001 | 30-JUL-2004 | 22204 | 21963 | 500.00 | 494.58 | mg/L  | -1     | 15 | >NA CWT/3/04 |
| GC11A  | A  | 114309132016 | 01-AUG-2004 23:25 | 114306371001 | 30-JUL-2004 | 22204 | 23381 | 1000.0 | 1053.0 | mg/L  | 5      | 15 |              |
| GC15B  | B  | 164309006004 | 01-AUG-2004 15:53 | 164283116001 | 14-JUL-2004 | 17983 | 18161 | 500.00 | 504.97 | mg/L  | 1      | 15 |              |
| GC15B  | B  | 164309006018 | 02-AUG-2004 00:02 | 164283116001 | 14-JUL-2004 | 17983 | 18507 | 1000.0 | 1029.2 | mg/L  | 3      | 15 |              |
| GC15B  | B  | 164310380003 | 02-AUG-2004 13:57 | 164283116001 | 14-JUL-2004 | 17983 | 18836 | 500.00 | 523.73 | mg/L  | 5      | 15 | >NA          |
| GC15B  | B  | 164310380016 | 02-AUG-2004 21:22 | 164283116001 | 14-JUL-2004 | 17983 | 19041 | 1000.0 | 1058.9 | mg/L  | 6      | 15 |              |

CONTINUING CALIBRATION SUMMARY FOR 173746 TEH Soil  
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       |        |        |       |        |          |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|--------|----------|
|        |    |              |                   |              |             | RF/CF | RF/CF | SpkAmt | QntAmt | Units | %D Max | %D Flags |
| GC15B  | B  | 164309006003 | 01-AUG-2004 15:06 | 164283116002 | 14-JUL-2004 | 12189 | 12541 | 500.00 | 514.41 | mg/L  | 3      | 15       |
| GC15B  | B  | 164309006016 | 01-AUG-2004 23:05 | 164283116002 | 14-JUL-2004 | 12189 | 13078 | 500.00 | 536.45 | mg/L  | 7      | 15       |

CONTINUING CALIBRATION SUMMARY FOR 173746 TEH Soil  
Curtis & Tompkins Laboratories

Analyte: Hexacosane

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       | SpkAmt | QntAmt | Units | %D Max | %D | Flags            |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|--------|----|------------------|
|        |    |              |                   |              |             | RF/CF | RF/CF |        |        |       |        |    |                  |
| GC11A  | A  | 114309132002 | 01-AUG-2004 16:41 | 114301759001 | 27-JUL-2004 | 27882 | 28859 | 50.000 | 51.752 | mg/L  | 4      | 15 | > NA CW H3 (2-4) |
| GC11A  | A  | 114309132016 | 01-AUG-2004 23:25 | 114301759001 | 27-JUL-2004 | 27882 | 30732 | 50.000 | 55.111 | mg/L  | 10     | 15 |                  |
| GC15B  | B  | 164309006003 | 01-AUG-2004 15:06 | 164283116004 | 14-JUL-2004 | 23609 | 20621 | 50.000 | 43.672 | mg/L  | -13    | 15 |                  |
| GC15B  | B  | 164309006016 | 01-AUG-2004 23:05 | 164283116004 | 14-JUL-2004 | 23609 | 23148 | 50.000 | 49.025 | mg/L  | -2     | 15 |                  |
| GC15B  | B  | 164310380003 | 02-AUG-2004 13:57 | 164283116004 | 14-JUL-2004 | 23609 | 20446 | 50.000 | 43.302 | mg/L  | -13    | 15 | > NA             |
| GC15B  | B  | 164310380016 | 02-AUG-2004 21:22 | 164283116004 | 14-JUL-2004 | 23609 | 21368 | 50.000 | 45.256 | mg/L  | -9     | 15 |                  |

SEQUENCE SUMMARY FOR 173746 TEH Soil  
Curtis & Tompkins Laboratories

Sequence: 164283116 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 14-JUL-2004  
Analytical Method: EPA 8015B SOP Version: TEH\_rv11

| #   | Filename | Type | Sample | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Stds | Used | >LR |
|-----|----------|------|--------|-------|--------|-------------|-------|-----|-----|----|----|----|------|------|-----|
| 001 | 196b001  | X    | ib     |       |        | 14-JUL-2004 | 14:36 | 1.0 |     |    |    |    |      |      |     |
| 002 | 196b002  | ICAL | ds1    |       |        | 14-JUL-2004 | 15:05 | 1.0 |     |    |    |    | 1    |      |     |
| 003 | 196b003  | ICAL | ds1    |       |        | 14-JUL-2004 | 15:33 | 1.0 |     |    |    |    | 2    |      |     |
| 004 | 196b004  | ICAL | ds1    |       |        | 14-JUL-2004 | 16:02 | 1.0 |     |    |    |    | 3    |      |     |
| 005 | 196b005  | ICAL | ds1    |       |        | 14-JUL-2004 | 16:31 | 1.0 |     |    |    |    | 4    |      |     |
| 006 | 196b006  | ICAL | ds1    |       |        | 14-JUL-2004 | 17:00 | 1.0 |     |    |    |    | 5    |      |     |
| 007 | 196b007  | ICAL | ds1    |       |        | 14-JUL-2004 | 17:29 | 1.0 |     |    |    |    | 6    |      |     |
| 008 | 196b008  | ICAL | ds1    |       |        | 14-JUL-2004 | 17:58 | 1.0 |     |    |    |    | 7    |      |     |
| 009 | 196b009  | X    | ib     |       |        | 14-JUL-2004 | 18:28 | 1.0 |     |    |    |    |      |      |     |
| 010 | 196b010  | ICAL | mo     |       |        | 14-JUL-2004 | 18:57 | 1.0 |     |    |    |    | 8    |      |     |
| 011 | 196b011  | ICAL | mo     |       |        | 14-JUL-2004 | 19:25 | 1.0 |     |    |    |    | 9    |      |     |
| 012 | 196b012  | ICAL | mo     |       |        | 14-JUL-2004 | 19:54 | 1.0 |     |    |    |    | 10   |      |     |
| 013 | 196b013  | ICAL | mo     |       |        | 14-JUL-2004 | 20:23 | 1.0 |     |    |    |    | 11   |      |     |
| 014 | 196b014  | ICAL | mo     |       |        | 14-JUL-2004 | 20:52 | 1.0 |     |    |    |    | 12   |      |     |
| 015 | 196b015  | ICAL | mo     |       |        | 14-JUL-2004 | 21:21 | 1.0 |     |    |    |    | 13   |      |     |
| 016 | 196b016  | X    | ib     |       |        | 14-JUL-2004 | 21:50 | 1.0 |     |    |    |    |      |      |     |
| 017 | 196b017  | ICAL | hex    |       |        | 14-JUL-2004 | 22:18 | 1.0 |     |    |    |    | 14   |      |     |
| 018 | 196b018  | ICAL | hex    |       |        | 14-JUL-2004 | 22:47 | 1.0 |     |    |    |    | 15   |      |     |
| 019 | 196b019  | ICAL | hex    |       |        | 14-JUL-2004 | 23:16 | 1.0 |     |    |    |    | 16   |      |     |
| 020 | 196b020  | ICAL | hex    |       |        | 14-JUL-2004 | 23:44 | 1.0 |     |    |    |    | 17   |      |     |
| 021 | 196b021  | ICAL | hex    |       |        | 15-JUL-2004 | 00:13 | 1.0 |     |    |    |    | 18   |      |     |
| 022 | 196b022  | X    | ib     |       |        | 15-JUL-2004 | 00:42 | 1.0 |     |    |    |    |      |      |     |
| 023 | 196b023  | ICAL | jp5    |       |        | 15-JUL-2004 | 01:10 | 1.0 |     |    |    |    | 19   |      |     |
| 024 | 196b024  | ICAL | jp5    |       |        | 15-JUL-2004 | 01:39 | 1.0 |     |    |    |    | 20   |      |     |
| 025 | 196b025  | ICAL | jp5    |       |        | 15-JUL-2004 | 02:08 | 1.0 |     |    |    |    | 21   |      |     |
| 026 | 196b026  | ICAL | jp5    |       |        | 15-JUL-2004 | 02:36 | 1.0 |     |    |    |    | 22   |      |     |
| 027 | 196b027  | ICAL | jp5    |       |        | 15-JUL-2004 | 03:05 | 1.0 |     |    |    |    | 23   |      |     |
| 028 | 196b028  | X    | ib     |       |        | 15-JUL-2004 | 03:34 | 1.0 |     |    |    |    |      |      |     |
| 029 | 196b029  | X    | c12-16 |       |        | 15-JUL-2004 | 04:02 | 1.0 |     |    |    |    |      |      |     |
| 030 | 196b030  | X    | c12-60 |       |        | 15-JUL-2004 | 04:31 | 1.0 |     |    |    |    |      |      |     |

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS1208 9=04WS1209 10=04WS1210 11=04WS1211 12=04WS1212 13=04WS1012 14=04WS0533  
15=04WS0534 16=04WS0535 17=04WS0536 18=04WS0537 19=04WS0572 20=04WS0573 21=04WS0574 22=04WS0575 23=04WS0576 24=04WS0983 25=04WS1144 26=04WS1249 27=04WS0513

SEQUENCE SUMMARY FOR 173746 TEH Soil  
Curtis & Tompkins Laboratories

Sequence: 164283116    Instrument: GC15B    Gas Chromatograph #15 (Channel B)    TEH    Begun: 14-JUL-2004  
Analytical Method: EPA 8015B    SOP Version: TEH\_rv11

| #   | Filename | Type | Samplenum | Batch | Matrix Analyzed | IDF   | IOC | SPK | uL | VL | pH | Stdts | Used | >LR |
|-----|----------|------|-----------|-------|-----------------|-------|-----|-----|----|----|----|-------|------|-----|
| 031 | 196b031  | X    | c50       |       | 15-JUL-2004     | 04:59 | 1.0 |     |    |    |    |       |      |     |
| 032 | 196b032  | X    | ib        |       | 15-JUL-2004     | 05:28 | 1.0 |     |    |    |    |       |      |     |
| 033 | 196b033  | ICV  | ds1       |       | 15-JUL-2004     | 05:57 | 1.0 |     | 3  |    |    | 24    |      |     |
| 034 | 196b034  | X    | ib        |       | 15-JUL-2004     | 06:25 | 1.0 |     |    |    |    |       |      |     |
| 035 | 196b035  | CCV  | ds1       |       | 15-JUL-2004     | 06:54 | 1.0 |     | 3  |    |    | 25    |      |     |
| 036 | 196b036  | X    | ib        |       | 15-JUL-2004     | 07:22 | 1.0 |     |    |    |    |       |      |     |
| 037 | 196b037  | CCV  | mo        |       | 15-JUL-2004     | 07:51 | 1.0 |     | 3  |    |    | 26    |      |     |
| 038 | 196b038  | X    | ib        |       | 15-JUL-2004     | 08:20 | 1.0 |     |    |    |    |       |      |     |
| 039 | 196b039  | CCV  | ip5       |       | 15-JUL-2004     | 08:48 | 1.0 |     | 3  |    |    | 27    |      |     |

Stdts used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS1208 9=04WS1209 10=04WS1210 11=04WS1211 12=04WS1212 13=04WS1012 14=04WS0533  
15=04WS0534 16=04WS0535 17=04WS0536 18=04WS0537 19=04WS0572 20=04WS0573 21=04WS0574 22=04WS0575 23=04WS0576 24=04WS0983 25=04WS1144 26=04WS1249 27=04WS0513

SEQUENCE SUMMARY FOR 173746 TEH Soil  
Curtis & Tompkins Laboratories

Sequence: 164309006 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 01-AUG-2004  
Analytical Method: EPA 8015B SOP Version: TEH\_rv11

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF   | PDF  | QC      | SPK | uL | Std | Used | >LR               |
|-----|----------|--------|------------|-------|--------|-------------|-------|------|---------|-----|----|-----|------|-------------------|
| 001 | 214b001  | X      | ib         |       |        | 01-AUG-2004 | 14:06 | 1.0  |         |     |    |     |      |                   |
| 002 | 214b002  | X      | ds1        |       |        | 01-AUG-2004 | 14:37 | 1.0  |         |     |    | 1   |      |                   |
| 003 | 214b003  | CCV    | mo         |       |        | 01-AUG-2004 | 15:06 | 1.0  |         |     | 3  | 2   |      |                   |
| 004 | 214b004  | CCV    | ds1        |       |        | 01-AUG-2004 | 15:53 | 1.0  |         |     | 3  | 1   |      |                   |
| 005 | 214b005  | BLANK  | QC259708   | S     | 93369  | Soil        | 17:51 | 1.0  | 0.09998 | 6   | 3  |     |      |                   |
| 006 | 214b006  | LCS    | QC259709   | S     | 93369  | Soil        | 18:19 | 1.0  | 0.1006  |     | 3  |     |      |                   |
| 007 | 214b007  | SAMPLE | 173746-005 | S     | 93369  | Soil        | 18:48 | 1.0  | 0.1002  |     | 3  |     |      |                   |
| 008 | 214b008  | SAMPLE | 173724-002 | S     | 93369  | Soil        | 19:16 | 1.0  | 0.1002  |     | 3  |     |      |                   |
| 009 | 214b009  | SAMPLE | 173711-002 | S     | 93369  | Soil        | 19:45 | 1.0  | 0.1003  |     | 3  |     |      |                   |
| 010 | 214b010  | SAMPLE | 173711-001 | S     | 93369  | Soil        | 20:13 | 1.0  | 0.1004  |     | 3  |     |      |                   |
| 011 | 214b011  | SAMPLE | 173746-015 | S     | 93369  | Soil        | 20:42 | 1.0  | 0.09964 |     | 3  |     |      |                   |
| 012 | 214b012  | SAMPLE | 173746-010 | S     | 93369  | Soil        | 21:11 | 1.0  | 0.0994  |     | 3  |     |      |                   |
| 013 | 214b013  | SAMPLE | 173711-003 | S     | 93369  | Soil        | 21:39 | 1.0  | 0.1003  |     | 3  |     |      |                   |
| 014 | 214b014  | SAMPLE | 173688-002 | S     | 93369  | Soil        | 22:08 | 1.0  | 0.09921 |     | 3  |     |      |                   |
| 015 | 214b015  | X      | ib         |       |        | 01-AUG-2004 | 22:36 | 1.0  |         |     |    |     |      |                   |
| 016 | 214b016  | CCV    | mo         |       |        | 01-AUG-2004 | 23:03 | 1.0  |         |     |    | 2   |      |                   |
| 017 | 214b017  | X      | CCV        |       |        | 01-AUG-2004 | 23:34 | 1.0  |         |     |    | 3   |      |                   |
| 018 | 214b018  | CCV    | ds1        |       |        | 02-AUG-2004 | 00:02 | 1.0  | 1.0     |     | 3  |     |      |                   |
| 019 | 214b019  | SAMPLE | 173688-001 | S     | 93369  | Soil        | 00:31 | 1.0  | 0.1002  |     | 3  |     |      |                   |
| 020 | 214b020  | SAMPLE | 173698-001 |       | 93369  | Miscel      | 01:00 | 50.0 | 0.1989  | 1   | 3  |     |      | 8:DSL:12=8168.63  |
| 021 | 214b021  | X      | ib         |       |        | 02-AUG-2004 | 01:28 | 1.0  |         |     |    |     |      |                   |
| 022 | 214b022  | SAMPLE | 173702-022 |       | 93369  | Soil        | 01:57 | 1.0  | 0.1003  |     | 3  |     |      |                   |
| 023 | 214b023  | SAMPLE | 173702-024 |       | 93369  | Soil        | 02:26 | 1.0  | 0.09972 |     | 3  |     |      |                   |
| 024 | 214b024  | SAMPLE | 173702-025 |       | 93369  | Soil        | 02:54 | 1.0  | 0.1003  |     | 3  |     |      |                   |
| 025 | 214b025  | SAMPLE | 173702-026 |       | 93369  | Soil        | 03:23 | 1.0  | 0.09978 |     | 3  |     |      |                   |
| 026 | 214b026  | SAMPLE | 173702-021 |       | 93369  | Soil        | 03:52 | 1.0  | 0.1659  |     | 3  |     |      |                   |
| 027 | 214b027  | SAMPLE | 173702-027 |       | 93369  | Soil        | 04:20 | 1.0  | 0.1002  |     | 3  |     |      |                   |
| 028 | 214b028  | SAMPLE | 173702-028 |       | 93369  | Soil        | 04:49 | 1.0  | 0.0999  |     | 3  |     |      |                   |
| 029 | 214b029  | SAMPLE | 173726-001 |       | 93369  | Soil        | 05:18 | 1.0  | 0.09978 | 1   | 3  |     |      | 10:DSL:12=18214.9 |
| 030 | 214b030  | CCV    | mo         |       |        | 02-AUG-2004 | 05:46 | 1.0  | 1.0     |     | 3  | 2   |      |                   |
| 031 | 214b031  | X      | CCV        |       |        | 02-AUG-2004 | 06:15 | 1.0  |         |     |    | 4   |      |                   |

Std's used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277

SEQUENCE SUMMARY FOR 173746 TEH Soil  
Curtis & Tompkins Laboratories

Sequence: 164309006 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 01-AUG-2004  
Analytical Method: EPA 8015B SOP Version: TEH\_rv11

| #   | Filename | Type | Sample | Batch | Matrix | Analyzed          | IDF | PDF | IQC | SPK | uL | Std | Used | >LR |
|-----|----------|------|--------|-------|--------|-------------------|-----|-----|-----|-----|----|-----|------|-----|
| 032 | 214b032  | CCV  | ds1    |       |        | 02-AUG-2004 06:44 | 1.0 | 1.0 |     |     | 3  | 4   |      |     |

Std used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277



Curtis & Tompkins Laboratories

Sample Preparation Summary

31-JUL-2004 14:44

Batch Number : 93369  
 Date Extracted: 31-JUL-2004  
 Extracted by : Kevin Riley  
 Prep Method : SHAKER TABLE

Analysis : TEH  
 Bgroup : N/A  
 Units : g  
 Clean-up :

Spike #1 ID : 04WS1409A  
 Spike #2 ID : 04WS1189F  
 Spike #3 ID :  
 SOP Version : TEH1 rv9

| Sample     | Type | Client                         | Matrix   | Init W/V | Units | Final Vol | Prep D.F. | Clean D.F. | Sp 1 Vol | Sp 2 Vol | Sp 3 Vol | Analyses | Clean Method | Comments |
|------------|------|--------------------------------|----------|----------|-------|-----------|-----------|------------|----------|----------|----------|----------|--------------|----------|
| 173688-001 |      | Innovative Technical Solutions | Soil     | 49.91 g  | ✓     | 5         | 0.100180  | 1          | 1        | 0        | 0        | TEH      | 3630C        | sg       |
| 173688-002 |      | Innovative Technical Solutions | Soil     | 50.4 g   | ✓     | 5         | 0.099206  | 1          | 1        | 0        | 0        | TEH      | 3630C        | sg       |
| 173698-001 |      | MWH                            | Miscell. | 50.28 g  | ✓     | 10        | 0.198886  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173702-021 |      | URS Corporation                | Soil     | 30.13 g  | ✓     | 5         | 0.165948  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173702-022 |      | URS Corporation                | Soil     | 49.86 g  | ✓     | 5         | 0.100281  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173702-024 |      | URS Corporation                | Soil     | 50.14 g  | ✓     | 5         | 0.099721  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173702-025 |      | URS Corporation                | Soil     | 49.84 g  | ✓     | 5         | 0.100321  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173702-026 |      | URS Corporation                | Soil     | 50.11 g  | ✓     | 5         | 0.099780  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173702-027 |      | URS Corporation                | Soil     | 49.9 g   | ✓     | 5         | 0.100200  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173702-028 |      | URS Corporation                | Soil     | 50.05 g  | ✓     | 5         | 0.099900  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173709-001 |      | URS Corporation                | Soil     | 50.16 g  | ✓     | 5         | 0.099681  | 1          | 1        | 0        | 0        | TEH      | 3630C        | sg       |
| 173711-001 |      | URS Corporation                | Soil     | 49.81 g  | ✓     | 5         | 0.100381  | 1          | 1        | 0        | 0        | TEH      | 3630C        | sg       |
| 173711-002 |      | URS Corporation                | Soil     | 49.86 g  | ✓     | 5         | 0.100281  | 1          | 1        | 0        | 0        | TEH      | 3630C        | sg       |
| 173711-003 |      | URS Corporation                | Soil     | 49.85 g  | ✓     | 5         | 0.100301  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173724-002 |      | Innovative Technical Solutions | Soil     | 49.91 g  | ✓     | 5         | 0.100180  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173726-001 |      | Tan Phung Associates           | Soil     | 50.11 g  | ✓     | 5         | 0.099780  | 1          | 1        | 0        | 0        | TEH      |              |          |
| 173726-002 |      | Tan Phung Associates           | Soil     | 50 g     | ✓     | 5         | 0.100000  | 1          | 1        | 0        | 0        | TEH      | 3630C        | sg       |
| 173726-005 |      | Geologica                      | Soil     | 49.9 g   | ✓     | 5         | 0.100200  | 1          | 1        | 0        | 0        | TEH      | 3630C        | sg       |
| 173748-010 |      | Geologica                      | Soil     | 50.3 g   | ✓     | 5         | 0.099404  | 1          | 1        | 0        | 0        | TEH      | 3630C        | sg       |
| QC259708   | MB   |                                |          |          |       |           |           |            |          |          |          |          |              |          |
| QC259709   | LCS  |                                |          |          |       |           |           |            |          |          |          |          |              |          |
| QC259710   | MS   |                                |          |          |       |           |           |            |          |          |          |          |              |          |
| QC259711   | MSD  |                                |          |          |       |           |           |            |          |          |          |          |              |          |

of 173726-002  
 of 173726-002

Prep Chemist: Kim Fly Reviewed By: Jennifer Hall Date: 8/1/04  
 Relinquished By: Kim Fly Received By: Ryan Hall Date: 8/03/04

LIMS Batch No: 93369  
 LIMS Analysis TEH  
 Extracted by: KR  
 Date Extracted: 7.31.04

Extraction Method:  
☒ Mechanical Shaker Table  
☐ EPA 3550 Sonication  
☐ Other \_\_\_\_\_

Cleanup Method (if necessary):  
☒ EPA 3630 Silica Gel  
☐ Other \_\_\_\_\_

| Sample # & letter     | Weight of Sample (g) | Final Volume (mL) | Cleanup (x if needed) | Comments               |
|-----------------------|----------------------|-------------------|-----------------------|------------------------|
| MB QC259708           | 50.01                | 5.0               | X                     |                        |
| LCS 9                 | 49.69                |                   | X                     |                        |
| MS 10                 | 49.75                |                   |                       |                        |
| MSD 11                | 49.74                |                   |                       |                        |
| 173688-001: A         | 49.91                |                   | X                     |                        |
| ↓ 2 ↓                 | 50.40                | ↓                 | X                     |                        |
| 173698-001: B         | 50.28                | 10.0              |                       | would not come further |
| 173702-021: A         | 30.13                | 5.0               | 5.0 KR                |                        |
| ↓ 22 ↓                | 49.86                |                   |                       |                        |
| ↓ 24 ↓                | 50.14                |                   |                       |                        |
| ↓ 25 ↓                | 49.84                |                   |                       |                        |
| ↓ 26 ↓                | 50.11                |                   |                       |                        |
| ↓ 27 ↓                | 49.90                |                   |                       |                        |
| ↓ 28 ↓                | 50.05                |                   |                       |                        |
| 173709-001: comp A-D  | 50.16                |                   |                       |                        |
| 173711-001: comp A-D  | 49.81                |                   | X                     |                        |
| ↓ 2 ↓                 | 49.86                |                   | X                     |                        |
| ↓ 3 ↓                 | 49.85                |                   | X                     |                        |
| 173724-002: comp A-A  | 49.91                |                   | X                     |                        |
| 173726-001: A         | 50.11                |                   |                       |                        |
| ↓ 2 ↓                 | 50.00                |                   |                       | MSS                    |
| 173746-005: comp 1-4A | 49.90                |                   | X                     |                        |
| ↓ 10 ↓ 6-9A           | 50.30                |                   | X                     |                        |
| ↓ 15 ↓ 11-14A         | 50.18                | ↓                 | X                     |                        |

8/1/04

| Mfg & Lot # / LIMS # / Time | Date/Initials |
|-----------------------------|---------------|
| EM43310410                  | 7.31.04 KR    |
| JTB A17450                  |               |
| 04WS1409 A                  |               |
| 04WS1189 F                  |               |
| EM44161                     |               |
| EM44085                     |               |
| 1030                        |               |
| 1230                        |               |
| JTB A17450                  |               |
| ✓                           | ↓             |

Sand weighed out for QC samples  
 Samples were dried with CH<sub>2</sub>Cl<sub>2</sub>-rinsed glass for Na<sub>2</sub>SO<sub>4</sub>  
1.0 mL of TEH\_SURR surrogate solution was added to all samples  
1.0 mL of TEH\_SP matrix spiking solution was added to all spikes  
 ≥ 75 mL of 1+1 (CH<sub>2</sub>Cl<sub>2</sub>+Acetone) was added to all

CH<sub>2</sub>Cl<sub>2</sub>  
 Acetone

Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:  
 taken off shaker table at:

Extracts filtered through baked, rinsed powdered Na<sub>2</sub>SO<sub>4</sub>  
 Concentrated to volumes as noted above

Krilly 7.31.04  
 Extraction Chemist / Date

Continued from page 39  
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Jennifer Deerp 8/1/04  
 Reviewed by / Date



| SAMPLE ID   | W/GHT | ANALYSTS | Comments        |
|-------------|-------|----------|-----------------|
| 173688-001A | 49.91 | TEH      | MSS             |
| 002         | 50.40 |          |                 |
| 003         | 50.10 |          |                 |
| 004         | 49.96 |          |                 |
| 005         | 50.00 |          |                 |
| 006         | 49.91 |          |                 |
| 007         | 50.17 |          |                 |
| 008         | 49.79 |          |                 |
| 009         | 50.32 |          |                 |
| 010         | 50.03 |          |                 |
| 011         | 49.74 |          |                 |
| 012         | 50.42 |          |                 |
| 013         | 49.95 |          |                 |
| 014         | 50.23 |          |                 |
| 015         | 50.26 |          | MSS             |
| 020         | 49.81 |          | Comp (016-019)A |
| 025         | 50.18 |          | (021-024)       |
| 030         | 50.45 |          | (026-029)       |
| 035         | 49.78 |          | (031-034)       |
| 040         | 50.13 |          | (036-039)       |
| 045         | 49.77 |          | (041-044)       |
| 050         | 50.07 |          | (046-049)       |
| MB          | 49.76 | TEH      | EM4310410       |
| LCS         | 50.02 |          | ↓               |
| MS          | 50.43 |          | 173688-015A     |
| MSD         | 50.47 |          | ↓               |
| MB          | 50.01 | TEH      | EM43310410      |
| LCS         | 49.69 |          | ↓               |
| MS          | 50.22 |          | 173688-001A     |
| MSD         | 50.36 |          | ↓               |

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7/29/04<sup>41</sup>

Date

Signed

Date

| <u>SAMPLE ID</u> | <u>WEIGHT</u> | <u>ANALYSIS</u> | <u>COMMENTS</u> |
|------------------|---------------|-----------------|-----------------|
| 173690-001A      | 50.13         | TEH             |                 |
| ↓                |               |                 |                 |
| 002              | 50.11         |                 |                 |
| 003              | 49.92         |                 |                 |
| ↓                |               |                 |                 |
| 004              | 50.24         |                 |                 |
| ↓                |               |                 |                 |
| 005              | 50.34         |                 | MSS             |
| 173698-001B      | 50.28         |                 |                 |
| 173699-001B      | 49.85         |                 |                 |
| MB               | 50.24         |                 | EM43510410      |
| LCS              | 50.39         |                 | ↓               |
| MS               | 50.30         |                 | 173690-005A     |
| MSD              | 50.04         | ↓               | ↓               |

*Handwritten note on graph area:* MSS 7/29/04

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Date

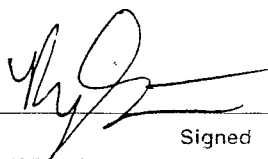
| SAMPLE ID      | WEIGHT | ANALYSIS | COMMENT     |
|----------------|--------|----------|-------------|
| 173702-021A    | 30.13  | TEH      |             |
| 022            | 49.86  |          |             |
| 023            | 50.44  |          | MSS         |
| 024            | 50.14  |          |             |
| 025            | 49.84  |          |             |
| 026            | 50.11  |          |             |
| 027            | 49.90  |          |             |
| 028            | 50.05  |          |             |
| 029            | 49.82  |          |             |
| 030            | 50.13  |          |             |
| 031            | 49.73  |          |             |
| 032            | 49.81  |          |             |
| 033            | 49.86  |          |             |
| 034            | 49.85  |          |             |
| 035            | 50.37  |          | 702-034A    |
| <del>036</del> | 49.86  |          | COMP (A-D)  |
| MB             | 50.01  | TEH      | EM 47310410 |
| LOS            | 49.79  |          | ↓           |
| MS             | 50.39  |          | 173702-023A |
| M&D            | 50.11  |          | ↓           |

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7.31

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Date

PROJECT SOIL ALIQUOT

Continued From Page

| SAMPLE ID  | WEIGHT | ANALYSIS | COMMENTS     |
|------------|--------|----------|--------------|
| 173711-001 | 30.12  | SLUD     | MSS COMP A-D |
| ↓ 002      | 30.12  | ↓        | ↓            |
| ↓ 003      | 29.71  | ↓        | ↓            |
| MB         | 29.75  | ↓        | GM43310410   |
| LCS        | 29.54  | ↓        | ↓            |
| MS         | 29.97  | ↓        | 173711-001   |
| MSD        | 30.04  | ↓        | ↓            |
| 173711-001 | 29.75  | PCB      | COMP(A-D)    |
| ↓ 002      | 30.49  | ↓        | ↓            |
| ↓ 003      | 30.46  | ↓        | ↓            |
| ↓ 001      | 49.81  | TEH      | ↓            |
| ↓ 002      | 49.86  | ↓        | ↓            |
| ↓ 003      | 49.85  | ↓        | ↓            |
| 173709-001 | 50.16  | ↓        | ↓            |
| ↓          | 29.90  | 8270     | ↓            |

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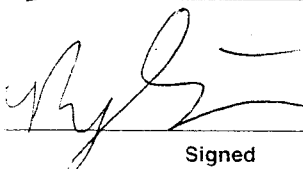
Date

| <u>SAMPLE ID</u> | <u>WEIGHT</u> | <u>ANALYSIS</u> | <u>COMMENTS</u> |
|------------------|---------------|-----------------|-----------------|
| 173724-002       | 49.91         | TEH             | COMP (A-H)      |
| 173726-001A      | 50.11         | ↓               |                 |
| 3 002A           | 50.06         |                 |                 |
| 173728-001A      | 49.74         |                 |                 |
| 173724-002       | 30.23         | 8081            | COMP (A-H)      |

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| <u>SAMPLE ID</u> | <u>WEIGHT</u> | <u>ANALYSIS</u> | <u>COMMENTS</u>               |
|------------------|---------------|-----------------|-------------------------------|
| 173746-005       | 49.90         | TEH             | COMP (1-4)A                   |
| ↓ 010            | 50.30         | ↓               | ↓ (6-9)A                      |
| ↓ 015            | 50.18         | ↓               | ↓ (11-14)A                    |
| 173746-005       | 30.30         | 8081            | COMP (1-4)A                   |
| ↓ 010            | 29.88         | ↓               | ↓ (6-9)A                      |
| ↓ 015            | 29.87         | ↓               | ↓ (11-14)A                    |
| MB               | 30.21         | ↓               | EM43310420                    |
| LCS              | 30.02         | ↓               | ↓                             |
| MS               | 29.98         | ↓               | 173746-007 <sup>010</sup> RTJ |
| MSD              | 29.94         | ↓               | ↓ 7/30                        |
| 173746-005       | 30.29         | PCB             | COMP (1-4)A                   |
| ↓ 010            | 30.00         | ↓               | ↓ (6-9)A                      |
| ↓ 015            | 29.84         | ↓               | ↓ (11-14)A                    |
| MB               | 29.58         | ↓               | EM43310410                    |
| LCS              | 30.23         | ↓               | ↓                             |
| MS               | 30.22         | ↓               | 173746-010-                   |
| MSD              | 30.03         | ↓               | ↓                             |

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## **Pesticides Results & QC Summary**

### Organochlorine Pesticides

|           |                  |           |                         |
|-----------|------------------|-----------|-------------------------|
| Lab #:    | 173746           | Location: | GA-9 Stockpile Sampling |
| Client:   | Geologica        | Prep:     | EPA 3550                |
| Project#: | STANDARD         | Analysis: | EPA 8081A               |
| Field ID: | GA9SSCOMP501-504 | Batch#:   | 93406                   |
| Lab ID:   | 173746-005       | Sampled:  | 07/30/04                |
| Matrix:   | Soil             | Received: | 07/30/04                |
| Units:    | ug/Kg            | Prepared: | 08/02/04                |
| Basis:    | dry              | Analyzed: | 08/02/04                |
| Diln Fac: | 1.000            |           |                         |

Moisture: 2%

Cleanup Method: EPA 3620B

| Analyte            | Result | RL  |
|--------------------|--------|-----|
| alpha-BHC          | ND     | 1.7 |
| beta-BHC           | ND     | 1.7 |
| gamma-BHC          | ND     | 1.7 |
| delta-BHC          | ND     | 1.7 |
| Heptachlor         | ND     | 1.7 |
| Aldrin             | ND     | 1.7 |
| Heptachlor epoxide | ND     | 1.7 |
| Endosulfan I       | ND     | 1.7 |
| Dieldrin           | ND     | 3.3 |
| 4,4'-DDE           | ND     | 3.3 |
| Endrin             | ND     | 3.3 |
| Endosulfan II      | ND     | 3.3 |
| Endosulfan sulfate | ND     | 3.3 |
| 4,4'-DDD           | ND     | 3.3 |
| Endrin aldehyde    | ND     | 3.3 |
| 4,4'-DDT           | ND     | 3.3 |
| alpha-Chlordane    | ND     | 1.7 |
| gamma-Chlordane    | ND     | 1.7 |
| Methoxychlor       | ND     | 17  |
| Toxaphene          | ND     | 61  |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 86   | 39-135 |
| Decachlorobiphenyl | 86   | 37-161 |

ND= Not Detected  
 RL= Reporting Limit  
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### Organochlorine Pesticides

|           |                      |           |                         |
|-----------|----------------------|-----------|-------------------------|
| Lab #:    | 173746               | Location: | GA-9 Stockpile Sampling |
| Client:   | Geologica            | Prep:     | EPA 3550                |
| Project#: | STANDARD             | Analysis: | EPA 8081A               |
| Field ID: | DUP073004COMP501-504 | Batch#:   | 93406                   |
| Lab ID:   | 173746-010           | Sampled:  | 07/30/04                |
| Matrix:   | Soil                 | Received: | 07/30/04                |
| Units:    | ug/Kg                | Prepared: | 08/02/04                |
| Basis:    | dry                  | Analyzed: | 08/02/04                |
| Diln Fac: | 1.000                |           |                         |

Moisture: 2%

Cleanup Method: EPA 3620B

| Analyte            | Result | RL  |
|--------------------|--------|-----|
| alpha-BHC          | ND     | 1.7 |
| beta-BHC           | ND     | 1.7 |
| gamma-BHC          | ND     | 1.7 |
| delta-BHC          | ND     | 1.7 |
| Heptachlor         | ND     | 1.7 |
| Aldrin             | ND     | 1.7 |
| Heptachlor epoxide | ND     | 1.7 |
| Endosulfan I       | ND     | 1.7 |
| Dieldrin           | ND     | 3.4 |
| 4,4'-DDE           | ND     | 3.4 |
| Endrin             | ND     | 3.4 |
| Endosulfan II      | ND     | 3.4 |
| Endosulfan sulfate | ND     | 3.4 |
| 4,4'-DDD           | ND     | 3.4 |
| Endrin aldehyde    | ND     | 3.4 |
| 4,4'-DDT           | ND     | 3.4 |
| alpha-Chlordane    | ND     | 1.7 |
| gamma-Chlordane    | ND     | 1.7 |
| Methoxychlor       | ND     | 17  |
| Toxaphene          | ND     | 61  |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 79   | 39-135 |
| Decachlorobiphenyl | 82   | 37-161 |

### Organochlorine Pesticides

|           |                  |           |                         |
|-----------|------------------|-----------|-------------------------|
| Lab #:    | 173746           | Location: | GA-9 Stockpile Sampling |
| Client:   | Geologica        | Prep:     | EPA 3550                |
| Project#: | STANDARD         | Analysis: | EPA 8081A               |
| Field ID: | GA9SSCOMP505-508 | Batch#:   | 93406                   |
| Lab ID:   | 173746-015       | Sampled:  | 07/30/04                |
| Matrix:   | Soil             | Received: | 07/30/04                |
| Units:    | ug/Kg            | Prepared: | 08/02/04                |
| Basis:    | dry              | Analyzed: | 08/02/04                |
| Diln Fac: | 1.000            |           |                         |

Moisture: 3%

Cleanup Method: EPA 3620B

| Analyte            | Result | RL  |
|--------------------|--------|-----|
| alpha-BHC          | ND     | 1.8 |
| beta-BHC           | ND     | 1.8 |
| gamma-BHC          | ND     | 1.8 |
| delta-BHC          | ND     | 1.8 |
| Heptachlor         | ND     | 1.8 |
| Aldrin             | ND     | 1.8 |
| Heptachlor epoxide | ND     | 1.8 |
| Endosulfan I       | ND     | 1.8 |
| Dieldrin           | ND     | 3.4 |
| 4,4'-DDE           | ND     | 3.4 |
| Endrin             | ND     | 3.4 |
| Endosulfan II      | ND     | 3.4 |
| Endosulfan sulfate | ND     | 3.4 |
| 4,4'-DDD           | ND     | 3.4 |
| Endrin aldehyde    | ND     | 3.4 |
| 4,4'-DDT           | ND     | 3.4 |
| alpha-Chlordane    | ND     | 1.8 |
| gamma-Chlordane    | ND     | 1.8 |
| Methoxychlor       | ND     | 18  |
| Toxaphene          | ND     | 62  |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 95   | 39-135 |
| Decachlorobiphenyl | 97   | 37-161 |

ND= Not Detected  
 RL= Reporting Limit  
 Page 1 of 1

## Batch QC Report

| Organochlorine Pesticides |             |           |                         |
|---------------------------|-------------|-----------|-------------------------|
| Lab #:                    | 173746      | Location: | GA-9 Stockpile Sampling |
| Client:                   | Geologica   | Prep:     | EPA 3550                |
| Project#:                 | STANDARD    | Analysis: | EPA 8081A               |
| Type:                     | BLANK       | Diln Fac: | 1.000                   |
| Lab ID:                   | QC259856    | Batch#:   | 93406                   |
| Matrix:                   | Soil        | Prepared: | 08/02/04                |
| Units:                    | ug/Kg       | Analyzed: | 08/02/04                |
| Basis:                    | as received |           |                         |

Cleanup Method: EPA 3620B

| Analyte            | Result | RL  |
|--------------------|--------|-----|
| alpha-BHC          | ND     | 1.7 |
| beta-BHC           | ND     | 1.7 |
| gamma-BHC          | ND     | 1.7 |
| delta-BHC          | ND     | 1.7 |
| Heptachlor         | ND     | 1.7 |
| Aldrin             | ND     | 1.7 |
| Heptachlor epoxide | ND     | 1.7 |
| Endosulfan I       | ND     | 1.7 |
| Dieldrin           | ND     | 3.3 |
| 4,4'-DDE           | ND     | 3.3 |
| Endrin             | ND     | 3.3 |
| Endosulfan II      | ND     | 3.3 |
| Endosulfan sulfate | ND     | 3.3 |
| 4,4'-DDD           | ND     | 3.3 |
| Endrin aldehyde    | ND     | 3.3 |
| 4,4'-DDT           | ND     | 3.3 |
| alpha-Chlordane    | ND     | 1.7 |
| gamma-Chlordane    | ND     | 1.7 |
| Methoxychlor       | ND     | 17  |
| Toxaphene          | ND     | 60  |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 96   | 39-135 |
| Decachlorobiphenyl | 93   | 37-161 |

ND= Not Detected  
RL= Reporting Limit  
Page 1 of 1

## Batch QC Report

| Organochlorine Pesticides |             |           |                         |
|---------------------------|-------------|-----------|-------------------------|
| Lab #:                    | 173746      | Location: | GA-9 Stockpile Sampling |
| Client:                   | Geologica   | Prep:     | EPA 3550                |
| Project#:                 | STANDARD    | Analysis: | EPA 8081A               |
| Type:                     | LCS         | Diln Fac: | 1.000                   |
| Lab ID:                   | QC259857    | Batch#:   | 93406                   |
| Matrix:                   | Soil        | Prepared: | 08/02/04                |
| Units:                    | ug/Kg       | Analyzed: | 08/02/04                |
| Basis:                    | as received |           |                         |

Cleanup Method: EPA 3620B

| Analyte    | Spiked | Result | %REC | Limits |
|------------|--------|--------|------|--------|
| gamma-BHC  | 16.66  | 11.82  | 71   | 38-135 |
| Heptachlor | 16.66  | 12.67  | 76   | 52-142 |
| Aldrin     | 16.66  | 12.22  | 73   | 49-125 |
| Dieldrin   | 16.66  | 12.66  | 76   | 33-138 |
| Endrin     | 16.66  | 13.54  | 81   | 33-164 |
| 4,4'-DDT   | 16.66  | 13.42  | 81   | 30-159 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 93   | 39-135 |
| Decachlorobiphenyl | 89   | 37-161 |



# INITIAL CALIBRATION REPORT FOR 173746 8081 Soil Curtis & Tompkins Laboratories

Instrument: GC16      Gas Chromatograph #16 ECD      Reviewed By: RH  
 Calnum: 234303916001      Name:      Type: (normal)      Date: 29-JUL-2004 01:16 Inj Vol (uL): 1

Calibration levels:

| # | Filename | Segment      | Sample | num | Analyzed          | Standards |
|---|----------|--------------|--------|-----|-------------------|-----------|
| 1 | 210_015  | 234303916015 | pest_1 |     | 29-JUL-2004 01:16 | 04WS0929  |
| 2 | 210_016  | 234303916016 | pest_2 |     | 29-JUL-2004 01:47 | 04WS0928  |
| 3 | 210_017  | 234303916017 | pest_3 |     | 29-JUL-2004 02:17 | 04WS0927  |
| 4 | 210_018  | 234303916018 | pest_4 |     | 29-JUL-2004 02:48 | 04WS0926  |
| 5 | 210_019  | 234303916019 | pest_5 |     | 29-JUL-2004 03:18 | 04WS0925  |
| 6 | 210_020  | 234303916020 | pest_6 |     | 29-JUL-2004 03:49 | 04WS0924  |
| 7 | 210_021  | 234303916021 | pest_7 |     | 29-JUL-2004 04:20 | 04WS0923  |

| Analyte            | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type | X | a0 | a1       | a2 | units | avg    | %RSD | MR^2  | MRSD | Flags   |
|--------------------|----|--------|--------|--------|--------|--------|--------|--------|------|---|----|----------|----|-------|--------|------|-------|------|---------|
| alpha-BHC          | A  | 8622.5 | 9267.3 | 12251  | 14627  | 11904  | 14604  | 14438  | AVRG | R |    | 8.167E-5 |    | pg    | 12245  | 21   | 0.995 | 20   | rsd *** |
| gamma-BHC          | A  | 9003.6 | 9580.7 | 12329  | 14253  | 11387  | 13738  | 13296  | AVRG | R |    | 8.375E-5 |    | pg    | 11041  | 17   | 0.995 | 20   |         |
| delta-BHC          | A  | 7380.4 | 6643.6 | 7530.2 | 7703.7 | 5956.9 | 6841.3 | 6446.7 | AVRG | R |    | 1.449E-4 |    | pg    | 6900.4 | 9    | 0.995 | 20   |         |
| Heptachlor         | A  | 11739  | 10039  | 12062  | 14051  | 10915  | 13454  | 13007  | AVRG | R |    | 8.210E-5 |    | pg    | 12181  | 12   | 0.995 | 20   |         |
| Aldrin             | A  | 11406  | 11332  | 13219  | 14207  | 11173  | 12785  | 11645  | AVRG | R |    | 8.161E-5 |    | pg    | 12253  | 10   | 0.995 | 20   |         |
| Heptachlor epoxide | A  | 9610.6 | 9546.0 | 11502  | 12860  | 10219  | 12020  | 11083  | AVRG | R |    | 9.110E-5 |    | pg    | 10977  | 11   | 0.995 | 20   |         |
| gamma-Chlordane    | A  | 11433  | 11026  | 12592  | 13320  | 10510  | 11660  | 10054  | AVRG | R |    | 8.685E-5 |    | pg    | 11513  | 10   | 0.995 | 20   |         |
| alpha-Chlordane    | A  | 11413  | 10776  | 12531  | 13617  | 10637  | 12199  | 10703  | AVRG | R |    | 8.550E-5 |    | pg    | 11697  | 10   | 0.995 | 20   |         |
| 4,4'-DDE           | A  | 11165  | 10691  | 12519  | 13388  | 10426  | 11866  | 10320  | AVRG | R |    | 8.709E-5 |    | pg    | 11482  | 10   | 0.995 | 20   |         |
| Endosulfan I       | A  | 10901  | 10574  | 12244  | 12995  | 10001  | 11194  | 9364.6 | AVRG | R |    | 9.059E-5 |    | pg    | 11039  | 11   | 0.995 | 20   |         |
| Dieldrin           | A  | 10932  | 10532  | 12240  | 13180  | 10198  | 11680  | 9991.0 | AVRG | R |    | 8.889E-5 |    | pg    | 11250  | 10   | 0.995 | 20   |         |
| Endrin             | A  | 9991.3 | 9937.8 | 11943  | 12847  | 9933.8 | 11036  | 9213.9 | AVRG | R |    | 9.345E-5 |    | pg    | 10700  | 12   | 0.995 | 20   |         |
| 4,4'-DDD           | A  | 9286.6 | 8948.5 | 10600  | 11323  | 8635.4 | 9584.1 | 7885.2 | AVRG | R |    | 1.056E-4 |    | pg    | 9466.1 | 12   | 0.995 | 20   |         |
| Endosulfan II      | A  | 6774.3 | 6918.2 | 8559.9 | 9825.6 | 7449.9 | 8740.2 | 7466.6 | AVRG | R |    | 1.256E-4 |    | pg    | 7962.1 | 14   | 0.995 | 20   |         |
| 4,4'-DDT           | A  | 10305  | 9918.0 | 11385  | 12045  | 9222.3 | 10200  | 8475.5 | AVRG | R |    | 9.783E-5 |    | pg    | 10222  | 12   | 0.995 | 20   |         |
| Endrin aldehyde    | A  | 6266.1 | 7002.3 | 8772.6 | 10321  | 7599.5 | 9272.9 | 8005.7 | AVRG | R |    | 1.223E-4 |    | pg    | 8177.2 | 17   | 0.995 | 20   |         |
| Methoxychlor       | A  | 9840.7 | 8714.3 | 9364.8 | 9765.7 | 7407.8 | 8210.8 | 6905.1 | AVRG | R |    | 1.163E-4 |    | pg    | 8601.3 | 13   | 0.995 | 20   |         |
|                    | A  | 4350.7 | 4264.0 | 4283.6 | 4248.1 | 3166.1 | 3371.0 | 2894.7 | AVRG | R |    | 2.634E-4 |    | pg    | 3796.9 | 17   | 0.995 | 20   |         |

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response \* a1 + response^2 \* a2

# INITIAL CALIBRATION REPORT FOR 173746 8081 Soil Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: RH  
Calnum: 234303916001 Name: Type: (normal) Date: 29-JUL-2004 01:16 Inj Vol (uL): 1

| Analyte            | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type | X | a0       | a1 | a2 | units | avg    | %RSD | MnR^2 | Flags |
|--------------------|----|--------|--------|--------|--------|--------|--------|--------|------|---|----------|----|----|-------|--------|------|-------|-------|
| Endosulfan sulfate | A  | 10612  | 9586.2 | 10372  | 10859  | 8271.9 | 9107.7 | 7671.9 | AVRG | R | 1.053E-4 |    |    | pg    | 9497.3 | 13   | 0.995 | 20    |
| Endrin ketone      | A  | 10243  | 10404  | 11813  | 12613  | 9512.9 | 10578  | 9033.4 | AVRG | R | 9.434E-5 |    |    | pg    | 10599  | 12   | 0.995 | 20    |
| TCMX               | A  | 10491  | 10164  | 11250  | 11349  | 9471.0 | 10025  | 9284.3 | AVRG | R | 9.718E-5 |    |    | pg    | 10291  | 8    | 0.995 | 20    |
| Decachlorobiphenyl | A  | 14172  | 13559  | 12793  | 12327  | 9289.3 | 9747.7 | 8658.9 | AVRG | R | 8.691E-5 |    |    | pg    | 11507  | 19   | 0.995 | 20    |
| alpha-BHC          | B  | 24700  | 25846  | 32049  | 35538  | 28850  | 34076  | 33862  | AVRG | R | 3.257E-5 |    |    | pg    | 30703  | 14   | 0.995 | 20    |
| gamma-BHC          | B  | 25818  | 25490  | 30584  | 33096  | 26431  | 31065  | 30418  | AVRG | R | 3.450E-5 |    |    | pg    | 28986  | 10   | 0.995 | 20    |
| beta-BHC           | B  | 20421  | 16747  | 17296  | 17137  | 13274  | 14681  | 13824  | AVRG | R | 6.174E-5 |    |    | pg    | 16197  | 15   | 0.995 | 20    |
| delta-BHC          | B  | 33342  | 27613  | 31014  | 33224  | 25909  | 30789  | 29639  | AVRG | R | 3.309E-5 |    |    | pg    | 30219  | 9    | 0.995 | 20    |
| Heptachlor         | B  | 24761  | 23190  | 25714  | 26675  | 21210  | 24068  | 22549  | AVRG | R | 4.163E-5 |    |    | pg    | 24024  | 8    | 0.995 | 20    |
| Aldrin             | B  | 24065  | 23569  | 27688  | 30000  | 23809  | 27560  | 25586  | AVRG | R | 3.840E-5 |    |    | pg    | 26040  | 9    | 0.995 | 20    |
| Heptachlor epoxide | B  | 26814  | 24531  | 27263  | 28056  | 22151  | 24573  | 21709  | AVRG | R | 3.998E-5 |    |    | pg    | 25014  | 10   | 0.995 | 20    |
| gamma-Chlordane    | B  | 28325  | 25614  | 28719  | 30507  | 23983  | 27667  | 24803  | AVRG | R | 3.692E-5 |    |    | pg    | 27088  | 9    | 0.995 | 20    |
| alpha-Chlordane    | B  | 28151  | 25713  | 28807  | 30273  | 23614  | 27076  | 23950  | AVRG | R | 3.732E-5 |    |    | pg    | 26798  | 9    | 0.995 | 20    |
| 4,4'-DDE           | B  | 20854  | 21077  | 25363  | 27937  | 21420  | 25123  |        | AVRG | R | 4.232E-5 |    |    | pg    | 23629  | 12   | 0.995 | 20    |
| Endosulfan I       | B  | 25403  | 23169  | 25976  | 27360  | 21303  | 24062  | 20851  | AVRG | R | 4.164E-5 |    |    | pg    | 24018  | 10   | 0.995 | 20    |
| Endrin             | B  | 20553  | 19503  | 22433  | 23908  | 18183  | 20841  | 17256  | AVRG | R | 4.126E-5 |    |    | pg    | 24237  | 10   | 0.995 | 20    |
| 4,4'-DDD           | B  | 15386  | 14984  | 17651  | 19697  | 14928  | 17778  | 15341  | AVRG | R | 4.906E-5 |    |    | pg    | 20383  | 11   | 0.995 | 20    |
| Endosulfan II      | B  | 23422  | 20921  | 23097  | 24187  | 18502  | 20847  | 17213  | AVRG | R | 6.047E-5 |    |    | pg    | 16538  | 11   | 0.995 | 20    |
| 4,4'-DDT           | B  | 12142  | 12484  | 15082  | 17740  | 13067  | 16613  | 14887  | AVRG | R | 4.724E-5 |    |    | pg    | 21170  | 12   | 0.995 | 20    |
| Endrin aldehyde    | B  | 19947  | 17236  | 18239  | 19118  | 14438  | 16359  | 14282  | AVRG | R | 6.862E-5 |    |    | pg    | 14574  | 15   | 0.995 | 20    |
| Methoxychlor       | B  | 7046.2 | 6746.0 | 7032.2 | 7597.6 | 5557.6 | 6354.6 |        | AVRG | R | 5.852E-5 |    |    | pg    | 17088  | 13   | 0.995 | 20    |
| Endosulfan sulfate | B  | 22858  | 19513  | 20596  | 21572  | 16277  | 18520  | 16151  | AVRG | R | 1.488E-4 |    |    | pg    | 6722.4 | 10   | 0.995 | 20    |
| Endrin ketone      | B  | 21521  | 20516  | 23229  | 23801  | 17755  | 20651  | 17885  | AVRG | R | 5.167E-5 |    |    | pg    | 19355  | 13   | 0.995 | 20    |
| TCMX               | B  | 24097  | 22334  | 24005  | 23945  | 20004  | 21393  | 20337  | AVRG | R | 4.846E-5 |    |    | pg    | 20637  | 11   | 0.995 | 20    |
| Decachlorobiphenyl | B  | 21022  | 19375  | 18292  | 18430  | 13781  | 15555  | 14954  | AVRG | R | 4.484E-5 |    |    | pg    | 22302  | 8    | 0.995 | 20    |
|                    |    |        |        |        |        |        |        |        |      |   | 5.766E-5 |    |    | pg    | 17344  | 15   | 0.995 | 20    |

| Method    | Ch | Count | Avg | %RSD | Limit | Flags |
|-----------|----|-------|-----|------|-------|-------|
| EPA 8081A | A  | 22    | 13  | 20   |       |       |
| EPA 8081A | B  | 22    | 11  | 20   |       |       |

Flags used: rsd=ICAL %RSD failure  
Curves: AVRG: Average response factor  
Instrument amount = a0 + response \* a1 + response^2 \* a2  
Page 2 of 2

PERFORMANCE EVALUATION REPORT FOR 173746 8081 Soil  
Curtis & Tompkins Laboratories

Instrument: GC16  
Seqnum: 234310564010  
Filename: 215\_010

Gas Chromatograph #16 ECD  
Run Name:  
Standard(s): 04WS1889

Injected: 02-AUG-2004 16:04

| Analyte               | Ch Area     |
|-----------------------|-------------|
| 4,4'-DDT              | A 762798.82 |
| 4,4'-DDE              | A 6327.55   |
| 4,4'-DDD              | A 26009.26  |
| 4,4'-DDT Breakdown %: | 4           |
| Breakdown Limit %:    | 15          |

| Analyte             | Ch Area     |
|---------------------|-------------|
| Endrin              | A 451302.52 |
| Endrin aldehyde     | A 12011.25  |
| Endrin ketone       | A 9158.21   |
| Endrin Breakdown %: | 4           |
| Breakdown Limit %:  | 15          |

| Analyte               | Ch Area      |
|-----------------------|--------------|
| 4,4'-DDT              | B 1279145.15 |
| 4,4'-DDE              | B 12912.74   |
| 4,4'-DDD              | B 49386.39   |
| 4,4'-DDT Breakdown %: | 5            |
| Breakdown Limit %:    | 15           |

| Analyte             | Ch Area    |
|---------------------|------------|
| Endrin              | B 934205.5 |
| Endrin aldehyde     | B 28676.09 |
| Endrin ketone       | B 21966.8  |
| Endrin Breakdown %: | 5          |
| Breakdown Limit %:  | 15         |

PERFORMANCE EVALUATION REPORT FOR 173746 8081 Soil  
Curtis & Tompkins Laboratories

Instrument: GC16  
Seqnum: 234310564026  
Filename: 215\_026

Gas Chromatograph #16 ECD  
Run Name:  
Standard(s): 04WS1889

Injected: 03-AUG-2004 01:34

| Analyte               | Ch Area     |
|-----------------------|-------------|
| 4,4'-DDT              | A 768491.19 |
| 4,4'-DDE              | A 5126.51   |
| 4,4'-DDD              | A 36249.53  |
| 4,4'-DDT Breakdown %: | 5           |
| Breakdown Limit %:    | 15          |

| Analyte             | Ch Area     |
|---------------------|-------------|
| Endrin              | A 462780.77 |
| Endrin aldehyde     | A 6943.89   |
| Endrin ketone       | A 14395.52  |
| Endrin Breakdown %: | 4           |
| Breakdown Limit %:  | 15          |

| Analyte               | Ch Area      |
|-----------------------|--------------|
| 4,4'-DDT              | B 1400835.66 |
| 4,4'-DDE              | B 11687.02   |
| 4,4'-DDD              | B 64623.52   |
| 4,4'-DDT Breakdown %: | 5            |
| Breakdown Limit %:    | 15           |

| Analyte             | Ch Area     |
|---------------------|-------------|
| Endrin              | B 990664.26 |
| Endrin aldehyde     | B 16875.51  |
| Endrin ketone       | B 37826.04  |
| Endrin Breakdown %: | 5           |
| Breakdown Limit %:  | 15          |

CONTINUING CALIBRATION REPORT FOR 173746 8081 Soil  
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : CC7 IDF : 1.0  
 Seqnum : 234310564013 Filename : 215\_013 Injected : 02-AUG-2004 18:58  
 Calnum : 234303916001 Caldate : 29 JUL-2004 Caltype :  
 Standards: 04WS0926

| Analyte            | Avg |        | SpkAmt     | QuantAmt | Units       | %D | Max | %D      | Flags |
|--------------------|-----|--------|------------|----------|-------------|----|-----|---------|-------|
|                    | Ch  | RF/CF  |            |          |             |    |     |         |       |
| alpha-BHC          | A   | 12245  | 13848      | 20.00000 | 22.61777 pg | 13 | 15  | rsd *** |       |
| gamma-BHC          | A   | 11941  | 13533      | 20.00000 | 22.66680 pg | 13 | 15  |         |       |
| beta-BHC           | A   | 6900.4 | 7306.7     | 20.00000 | 21.17756 pg | 6  | 15  |         |       |
| delta-BHC          | A   | 12181  | 12979      | 20.00000 | 21.31030 pg | 7  | 15  |         |       |
| Heptachlor         | A   | 12253  | 13175      | 20.00000 | 21.50569 pg | 8  | 15  |         |       |
| Aldrin             | A   | 10977  | 12052      | 20.00000 | 21.95925 pg | 10 | 15  |         |       |
| Heptachlor epoxide | A   | 11513  | 12503      | 20.00000 | 21.71947 pg | 9  | 15  |         |       |
| gamma-Chlordane    | A   | 11697  | 12755      | 20.00000 | 21.80987 pg | 9  | 15  |         |       |
| alpha-Chlordane    | A   | 11482  | 12544      | 20.00000 | 21.84901 pg | 9  | 15  |         |       |
| 4,4'-DDE           | A   | 11039  | 12252      | 40.00000 | 44.39462 pg | 11 | 15  |         |       |
| Endosulfan I       | A   | 11250  | 12226      | 20.00000 | 21.73505 pg | 9  | 15  |         |       |
| Dieldrin           | A   | 10700  | 11730      | 40.00000 | 43.84676 pg | 10 | 15  |         |       |
| Endrin             | A   | 9466.1 | 10624      | 40.00000 | 44.89301 pg | 12 | 15  |         |       |
| 4,4'-DDD           | A   | 7962.1 | 9171.1     | 40.00000 | 46.07350 pg | 15 | 15  |         |       |
| Endosulfan II      | A   | 10222  | 11191      | 40.00000 | 43.79212 pg | 9  | 15  |         |       |
| 4,4'-DDT           | A   | 8177.2 | 9312.5     | 40.00000 | 45.55316 pg | 14 | 15  |         |       |
| Endrin aldehyde    | A   | 8601.3 | 8027.9     | 40.00000 | 37.33347 pg | -7 | 15  |         |       |
| Methoxychlor       | A   | 3796.9 | 3775.5     | 200.0000 | 198.8743 pg | -1 | 15  |         |       |
| Endosulfan sulfate | A   | 9497.3 | 10020      | 40.00000 | 42.20363 pg | 6  | 15  |         |       |
| Endrin ketone      | A   | 10599  | 11743      | 40.00000 | 44.31644 pg | 11 | 15  |         |       |
| TCMX               | A   | 10291  | 10818      | 40.00000 | 42.05036 pg | 5  | 15  |         |       |
| Decachlorobiphenyl | A   | 11507  | 11009      | 40.00000 | 38.26910 pg | -4 | 15  |         |       |
| alpha-BHC          | B   | 30703  | 34622      | 20.00000 | 22.55332 pg | 13 | 15  |         |       |
| gamma-BHC          | B   | 28986  | 31705      | 20.00000 | 21.87627 pg | 9  | 15  |         |       |
| beta-BHC           | B   | 16197  | 16321      | 20.00000 | 20.15323 pg | 1  | 15  |         |       |
| delta-BHC          | B   | 30219  | 30919      | 20.00000 | 20.46310 pg | 2  | 15  |         |       |
| Heptachlor         | B   | 24024  | 24992      | 20.00000 | 20.80594 pg | 4  | 15  |         |       |
| Aldrin             | B   | 26040  | 28944      | 20.00000 | 22.23065 pg | 11 | 15  |         |       |
| Heptachlor epoxide | B   | 25014  | 26383      | 20.00000 | 21.09464 pg | 5  | 15  |         |       |
| gamma-Chlordane    | B   | 27088  | 28897      | 20.00000 | 21.33531 pg | 7  | 15  |         |       |
| alpha-Chlordane    | B   | 26798  | 28699      | 20.00000 | 21.41859 pg | 7  | 15  |         |       |
| 4,4'-DDE           | B   | 23629  | 26308      | 40.00000 | 44.53434 pg | 11 | 15  |         |       |
| Endosulfan I       | B   | 24018  | 25399      | 20.00000 | 21.14990 pg | 6  | 15  |         |       |
| Dieldrin           | B   | 24237  | 26085      | 40.00000 | 43.05028 pg | 8  | 15  |         |       |
| Endrin             | B   | 20383  | 22005      | 40.00000 | 43.18423 pg | 8  | 15  |         |       |
| 4,4'-DDD           | B   | 16538  | 17097      | 40.00000 | 41.35255 pg | 3  | 15  |         |       |
| Endosulfan II      | B   | 21170  | 23078      | 40.00000 | 43.60501 pg | 9  | 15  |         |       |
| 4,4'-DDT           | B   | 14574  | 15371      | 40.00000 | 42.18978 pg | 5  | 15  |         |       |
| Endrin aldehyde    | B   | 17088  | 18006      | 40.00000 | 42.14765 pg | 5  | 15  |         |       |
| Methoxychlor       | B   | 6722.4 | 6476.3     | 200.0000 | 192.6784 pg | -4 | 15  |         |       |
| Endosulfan sulfate | B   | 19355  | 19975      | 40.00000 | 41.28040 pg | 3  | 15  |         |       |
| Endrin ketone      | B   | 20637  | 21923      | 40.00000 | 42.49385 pg | 6  | 15  |         |       |
| TCMX               | B   | 22302  | 25020      | 40.00000 | 44.87498 pg | 12 | 15  |         |       |
| Decachlorobiphenyl | B   | 17344  | 17120      | 40.00000 | 39.48396 pg | -1 | 15  |         |       |
| Average EPA 8081A  | A   |        | (count=22) |          |             | 9  | 15  |         |       |
| Average EPA 8081A  | B   |        | (count=22) |          |             | 6  | 15  |         |       |

rsd=ICAL %RSD failure  
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CONTINUING CALIBRATION REPORT FOR 173746 8081 Soil  
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest\_5 IDF : 1.0  
 Seqnum : 234310564027 Filename : 215\_027 Injected : 03-AUG-2004 02:04  
 Calnum : 234303916001 Caldate : 29 JUL-2004 Caltype :  
 Standards: 04WS1375

| Analyte            | Avg |        | SpkAmt     | QuantAmt | Units       | %D Max | %D | Flags   |
|--------------------|-----|--------|------------|----------|-------------|--------|----|---------|
|                    | Ch  | RF/CF  |            |          |             |        |    |         |
| alpha-BHC          | A   | 12245  | 12470      | 25.00000 | 25.46078 pg | 2      | 15 | rsd *** |
| gamma-BHC          | A   | 11941  | 11898      | 25.00000 | 24.91026 pg | 0      | 15 |         |
| beta-BHC           | A   | 6900.4 | 6306.8     | 25.00000 | 22.84948 pg | -9     | 15 |         |
| delta-BHC          | A   | 12181  | 11500      | 25.00000 | 23.60169 pg | -6     | 15 |         |
| Heptachlor         | A   | 12253  | 11286      | 25.00000 | 23.02683 pg | -8     | 15 |         |
| Aldrin             | A   | 10977  | 10766      | 25.00000 | 24.51822 pg | -2     | 15 |         |
| Heptachlor epoxide | A   | 11513  | 11057      | 25.00000 | 24.00858 pg | -4     | 15 |         |
| gamma-Chlordane    | A   | 11697  | 11297      | 25.00000 | 24.14616 pg | -3     | 15 |         |
| alpha-Chlordane    | A   | 11482  | 11164      | 25.00000 | 24.30617 pg | -3     | 15 |         |
| 4,4'-DDE           | A   | 11039  | 10801      | 50.00000 | 48.92336 pg | -2     | 15 |         |
| Endosulfan I       | A   | 11250  | 10938      | 25.00000 | 24.30680 pg | -3     | 15 |         |
| Dieldrin           | A   | 10700  | 10584      | 50.00000 | 49.45717 pg | -1     | 15 |         |
| Endrin             | A   | 9466.1 | 9119.8     | 50.00000 | 48.17085 pg | -4     | 15 |         |
| 4,4'-DDD           | A   | 7962.1 | 8418.6     | 50.00000 | 52.86635 pg | 6      | 15 |         |
| Endosulfan II      | A   | 10222  | 9899.2     | 50.00000 | 48.42298 pg | -3     | 15 |         |
| 4,4'-DDT           | A   | 8177.2 | 7641.5     | 50.00000 | 46.72442 pg | -7     | 15 |         |
| Endrin aldehyde    | A   | 8601.3 | 8005.9     | 50.00000 | 46.53900 pg | -7     | 15 |         |
| Methoxychlor       | A   | 3796.9 | 3251.1     | 250.0000 | 214.0637 pg | -14    | 15 |         |
| Endosulfan sulfate | A   | 9497.3 | 8784.6     | 50.00000 | 46.24805 pg | -8     | 15 |         |
| Endrin ketone      | A   | 10599  | 10261      | 50.00000 | 48.40321 pg | -3     | 15 |         |
| TCMX               | A   | 10291  | 9754.0     | 50.00000 | 47.39320 pg | -5     | 15 |         |
| Decachlorobiphenyl | A   | 11507  | 9739.1     | 50.00000 | 42.32011 pg | -15    | 15 |         |
| alpha-BHC          | B   | 30703  | 30536      | 25.00000 | 24.86454 pg | -1     | 15 |         |
| gamma-BHC          | B   | 28986  | 28015      | 25.00000 | 24.16296 pg | -3     | 15 |         |
| beta-BHC           | B   | 16197  | 14170      | 25.00000 | 21.87125 pg | -13    | 15 |         |
| delta-BHC          | B   | 30219  | 27110      | 25.00000 | 22.42814 pg | -10    | 15 |         |
| Heptachlor         | B   | 24024  | 21859      | 25.00000 | 22.74721 pg | -9     | 15 |         |
| Aldrin             | B   | 26040  | 25247      | 25.00000 | 24.23853 pg | -3     | 15 |         |
| Heptachlor epoxide | B   | 25014  | 23556      | 25.00000 | 23.54277 pg | -6     | 15 |         |
| gamma-Chlordane    | B   | 27088  | 25586      | 25.00000 | 23.61395 pg | -6     | 15 |         |
| alpha-Chlordane    | B   | 26798  | 25133      | 25.00000 | 23.44671 pg | -6     | 15 |         |
| 4,4'-DDE           | B   | 23629  | 23348      | 50.00000 | 49.40459 pg | -1     | 15 |         |
| Endosulfan I       | B   | 24018  | 22739      | 25.00000 | 23.66913 pg | -5     | 15 |         |
| Dieldrin           | B   | 24237  | 23032      | 50.00000 | 47.51345 pg | -5     | 15 |         |
| Endrin             | B   | 20383  | 19522      | 50.00000 | 47.88848 pg | -4     | 15 |         |
| 4,4'-DDD           | B   | 16538  | 17394      | 50.00000 | 52.58831 pg | 5      | 15 |         |
| Endosulfan II      | B   | 21170  | 20441      | 50.00000 | 48.27792 pg | -3     | 15 |         |
| 4,4'-DDT           | B   | 14574  | 13715      | 50.00000 | 47.05502 pg | -6     | 15 |         |
| Endrin aldehyde    | B   | 17088  | 15879      | 50.00000 | 46.46127 pg | -7     | 15 |         |
| Methoxychlor       | B   | 6722.4 | 5841.2     | 50.0000  | 217.2295 pg | -13    | 15 |         |
| Endosulfan sulfate | B   | 19355  | 17599      | 50.00000 | 45.46155 pg | -9     | 15 |         |
| Endrin ketone      | B   | 20637  | 19607      | 50.00000 | 47.50391 pg | -5     | 15 |         |
| TCMX               | B   | 22302  | 20834      | 50.00000 | 46.70858 pg | -7     | 15 |         |
| Decachlorobiphenyl | B   | 17344  | 14866      | 50.00000 | 42.85611 pg | -14    | 15 |         |
| Average EPA 8081A  | A   |        | (count=22) |          |             | 5      | 15 |         |
| Average EPA 8081A  | B   |        | (count=22) |          |             | 6      | 15 |         |

rsd=ICAL %RSD failure  
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SEQUENCE SUMMARY FOR 173746 8081 Soil  
Curtis & Tompkins Laboratories

Sequence: 234303916 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 28-JUL-2004  
Analytical Method: EPA 8081A SOP Version: 8081\_rv7

| #   | Filename | Type | Samplenum | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Stds | Used | >LR |
|-----|----------|------|-----------|-------|--------|-------------|-------|-----|-----|----|----|----|------|------|-----|
| 012 | 210_012  | PEM  |           |       |        | 28-JUL-2004 | 23:45 | 1.0 |     | 1  |    |    | 1    |      |     |
| 014 | 210_014  | X    | hex       |       |        | 29-JUL-2004 | 00:46 | 1.0 |     |    |    |    |      |      |     |
| 015 | 210_015  | ICAL | pest_1    |       |        | 29-JUL-2004 | 01:16 | 1.0 |     |    |    |    | 2    |      |     |
| 016 | 210_016  | ICAL | pest_2    |       |        | 29-JUL-2004 | 01:47 | 1.0 |     |    |    |    | 3    |      |     |
| 017 | 210_017  | ICAL | pest_3    |       |        | 29-JUL-2004 | 02:17 | 1.0 |     |    |    |    | 4    |      |     |
| 018 | 210_018  | ICAL | pest_4    |       |        | 29-JUL-2004 | 02:48 | 1.0 |     |    |    |    | 5    |      |     |
| 019 | 210_019  | ICAL | pest_5    |       |        | 29-JUL-2004 | 03:18 | 1.0 |     |    |    |    | 6    |      |     |
| 020 | 210_020  | ICAL | pest_6    |       |        | 29-JUL-2004 | 03:49 | 1.0 |     |    |    |    | 7    |      |     |
| 021 | 210_021  | ICAL | pest_7    |       |        | 29-JUL-2004 | 04:20 | 1.0 |     |    |    |    | 8    |      |     |
| 023 | 210_023  | ICV  | accu_pest |       |        | 29-JUL-2004 | 05:20 | 1.0 | 1   | 1  |    |    | 9    |      |     |
| 024 | 210_024  | X    | icv       |       |        | 29-JUL-2004 | 05:51 | 1.0 |     |    |    |    | 9    |      |     |

SEQUENCE SUMMARY FOR 173746 8081 Soil  
Curtis & Tompkins Laboratories

Sequence: 234310564 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 02-AUG-2004  
Analytical Method: EPA 8081A SOP Version: 8081\_rv7

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed          | IDF  | PDF    | IOC | SPK | uL | Stds | Used | >LR |
|-----|----------|--------|------------|-------|--------|-------------------|------|--------|-----|-----|----|------|------|-----|
| 010 | 215_010  | PEM    |            |       |        | 02-AUG-2004 16:04 | 1.0  | 1.0    |     | 1   |    | 1    |      |     |
| 011 | 215_011  | X      | pest_4     |       |        | 02-AUG-2004 16:34 | 1.0  |        |     |     |    | 2    |      |     |
| 012 | 215_012  | X      | CCV        |       |        | 02-AUG-2004 17:05 | 1.0  |        |     |     |    | 2    |      |     |
| 013 | 215_013  | CCV    |            |       |        | 02-AUG-2004 18:58 | 1.0  | 1.0    | 1   |     |    | 2    |      |     |
| 015 | 215_015  | BLANK  | QC259856   | 93406 | Soil   | 02-AUG-2004 19:59 | 1.0  | 0.662  |     | 1   |    | 1    |      |     |
| 016 | 215_016  | LCS    | QC259857   | 93406 | Soil   | 02-AUG-2004 20:30 | 1.0  | 0.6662 | 1   |     |    | 1    |      |     |
| 017 | 215_017  | SAMPLE | 173727-001 | 93347 | Soil   | 02-AUG-2004 21:00 | 10.0 |        |     |     |    |      |      |     |
| 018 | 215_018  | SAMPLE | 173746-005 | 93406 | Soil   | 02-AUG-2004 21:31 | 1.0  | 0.6601 |     | 1   |    |      |      |     |
| 019 | 215_019  | SAMPLE | 173746-010 | 93406 | Soil   | 02-AUG-2004 22:01 | 1.0  | 0.6693 |     | 1   |    |      |      |     |
| 020 | 215_020  | SAMPLE | 173746-015 | 93406 | Soil   | 02-AUG-2004 22:32 | 1.0  | 0.6696 |     | 1   |    |      |      |     |
| 021 | 215_021  | MS     | QC259624   | 93347 | Soil   | 02-AUG-2004 23:02 | 1.0  | 0.6592 | 1   |     |    |      |      |     |
| 022 | 215_022  | MSD    | QC259625   | 93347 | Soil   | 02-AUG-2004 23:32 | 1.0  | 0.6638 | 1   |     |    |      |      |     |
| 023 | 215_023  | SAMPLE | 173719-007 | 93347 | Soil   | 03-AUG-2004 00:02 | 4.0  | 0.6664 |     | 1   |    |      |      |     |
| 024 | 215_024  | SAMPLE | 173728-001 | 93347 | Soil   | 03-AUG-2004 00:33 | 5.0  | 0.6649 |     | 1   |    |      |      |     |
| 026 | 215_026  | PEM    |            |       |        | 03-AUG-2004 01:34 | 1.0  | 1.0    |     | 1   |    | 1    |      |     |
| 027 | 215_027  | CCV    | pest_5     |       |        | 03-AUG-2004 02:04 | 1.0  | 1.0    | 1   |     |    | 3    |      |     |
| 028 | 215_028  | X      | CCV        |       |        | 03-AUG-2004 02:35 | 1.0  |        |     |     |    | 3    |      |     |
| 029 | 215_029  | X      | CCV        |       |        | 03-AUG-2004 03:05 | 1.0  |        |     |     |    | 4    |      |     |
| 031 | 215_031  | SAMPLE | 173724-002 | 93406 | Soil   | 03-AUG-2004 04:06 | 1.0  | 0.6616 |     | 1   |    |      |      |     |
| 032 | 215_032  | SAMPLE | 173762-001 | 93406 | Soil   | 03-AUG-2004 04:37 | 5.0  | 0.6585 |     | 1   |    |      |      |     |
| 033 | 215_033  | SAMPLE | 173762-002 | 93406 | Soil   | 03-AUG-2004 05:07 | 10.0 | 0.6714 |     | 1   |    |      |      |     |
| 034 | 215_034  | SAMPLE | 173762-003 | 93406 | Soil   | 03-AUG-2004 05:38 | 4.0  | 0.6653 |     | 1   |    |      |      |     |
| 036 | 215_036  | PEM    |            |       |        | 03-AUG-2004 06:39 | 1.0  | 1.0    |     | 1   |    | 1    |      |     |
| 037 | 215_037  | X      | pest_4     |       |        | 03-AUG-2004 07:09 | 1.0  |        |     |     |    | 2    |      |     |
| 038 | 215_038  | CCV    | CCV        |       |        | 03-AUG-2004 07:39 | 1.0  | 1.0    | 3   | 1   |    | 2    |      |     |
| 040 | 215_040  | SAMPLE | 173727-001 | 93347 | Soil   | 03-AUG-2004 11:22 | 20.0 | 0.6671 | 15  | 1   |    | >ac  |      |     |
| 051 | 215_051  | PEM    |            |       |        | 03-AUG-2004 18:16 | 1.0  | 1.0    |     | 1   |    | 1    |      |     |
| 052 | 215_052  | X      | pest_5     |       |        | 03-AUG-2004 18:57 | 1.0  |        |     |     |    | 3    |      |     |
| 053 | 215_053  | X      | CCV        |       |        | 03-AUG-2004 19:28 | 1.0  |        |     |     |    | 3    |      |     |
| 054 | 215_054  | CCV    | CCV        |       |        | 03-AUG-2004 19:58 | 1.0  | 1.0    | 18  | 1   |    | 4    | ac   |     |

Stds used: 1=04WS1389 2=04WS0926 3=04WS1375 4=04WS1385  
Flags used: >=closing ac=average CCV drift out



SEQUENCE SUMMARY FOR 173746 8081 Soil  
Curtis & Tompkins Laboratories

Sequence: 234310564 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 02-AUG-2004  
Analytical Method: EPA 8081A SOP Version: 8081\_rv7

| #   | Filename | Type | Sample   | Batch | Matrix | Analyzed          | IDF | PDF | IOC | SPK | uL | Std | Used | >LR |
|-----|----------|------|----------|-------|--------|-------------------|-----|-----|-----|-----|----|-----|------|-----|
| 057 | 215_057  | LCS  | QC259907 | 93420 | Soil   | 03-AUG-2004 21:30 | 1.0 |     |     |     |    |     |      |     |
| 067 | 215_067  | PEM  |          |       |        | 04-AUG-2004 02:34 | 1.0 | 1.0 |     |     | 1  | 1   |      |     |
| 068 | 215_068  | CCV  | pest_4   |       |        | 04-AUG-2004 03:04 | 1.0 | 1.0 | 3   |     | 1  | 2   |      |     |
| 069 | 215_069  | X    | CCV      |       |        | 04-AUG-2004 03:35 | 1.0 |     |     |     |    | 2   |      |     |

Std's used: 1=04WS1389 2=04WS0926 3=04WS1375 4=04WS1385  
Flags used: >=closing ac=average CCV drift out

# Curtis & Tompkins Laboratories Sample Preparation Summary

02-AUG-2004 20:12

Batch Number : 93406  
 Date Extracted : 02-AUG-2004  
 Extracted by : Coral E. Weese  
 Prep Method : 3550

Analysis : 8081  
 Bgroup : N/A  
 Units : g  
 Clean-up :

Spike #1 ID : 04WS0993B  
 Spike #2 ID : 04WS0840D  
 Spike #3 ID :  
 SGP Version : 8081s\_rv9

| Sample     | Type | Client                         | Matrix | Init    | Units | Final    | Prep | Clean | pH  | Sp 1 | Sp 2 | Sp 3 | Analyses | Clean | Comments |
|------------|------|--------------------------------|--------|---------|-------|----------|------|-------|-----|------|------|------|----------|-------|----------|
| 173724-002 |      | Innovative Technical Solutions | Soil   | 30.23 g | 20    | 0.661594 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173735-001 |      | Tetra Tech FW                  | Soil   | 29.53 g | 20    | 0.677277 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173735-002 |      | Tetra Tech FW                  | Soil   | 29.96 g | 20    | 0.667557 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173735-003 |      | Tetra Tech FW                  | Soil   | 29.92 g | 20    | 0.668449 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173746-005 |      | Geologica                      | Soil   | 30.3 g  | 20    | 0.660066 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173746-010 |      | Geologica                      | Soil   | 29.88 g | 20    | 0.669344 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173746-015 |      | Geologica                      | Soil   | 29.87 g | 20    | 0.669568 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173748-007 |      | East Bay Regional Park Distric | Soil   | 29.76 g | 20    | 0.672043 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173755-001 |      | Tetra Tech FW                  | Soil   | 29.62 g | 20    | 0.675219 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173755-002 |      | Tetra Tech FW                  | Soil   | 29.78 g | 20    | 0.671592 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173755-003 |      | Tetra Tech FW                  | Soil   | 30.19 g | 20    | 0.662471 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173759-001 |      | Tetra Tech FW                  | Soil   | 29.54 g | 20    | 0.677048 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173759-002 |      | Tetra Tech FW                  | Soil   | 30.04 g | 20    | 0.665779 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173759-003 |      | Tetra Tech FW                  | Soil   | 29.81 g | 20    | 0.670916 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173759-004 |      | Tetra Tech FW                  | Soil   | 29.54 g | 20    | 0.677048 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173759-005 |      | Tetra Tech FW                  | Soil   | 30.38 g | 20    | 0.658328 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173762-001 |      | Tetra Tech FW                  | Soil   | 30.77 g | 20    | 0.670472 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173762-002 |      | URS Corporation                | Soil   | 30.37 g | 20    | 0.658545 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| 173762-003 |      | URS Corporation                | Soil   | 29.79 g | 20    | 0.671366 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| QC259856   | MB   | URS Corporation                | Soil   | 30.06 g | 20    | 0.665336 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| QC259857   | LCS  | URS Corporation                | Soil   | 30.21 g | 20    | 0.662032 | 1    |       | .02 | 0    |      |      | 8081     | 36208 |          |
| QC259858   | MS   | URS Corporation                | Soil   | 30.02 g | 20    | 0.666223 | 1    |       | .02 | 1    |      |      | 8081     | 36208 |          |
| QC259859   | MSD  | URS Corporation                | Soil   | 29.89 g | 20    | 0.669120 | 1    |       | .02 | 1    |      |      | 8081     | 36208 |          |
|            |      | of 173755-001                  | Soil   | 29.62 g | 20    | 0.675219 | 1    |       | .02 | 1    |      |      | 8081     | 36208 |          |

Prep Chemist: Coral E. Weese

Relinquished By: Coral E. Weese

Reviewed By: W. Weese

Date: 8/02/04

Received By: W. Weese

Date: 8/2/04

LIMS Batch No: 93406LIMS Analysis: 8081Extracted by: LOWDate Extracted: 8/2/04

## Extraction Method:

- ☒ EPA 3550b Sonication  
☐ EPA 3545 PFE (M h# \_\_\_\_\_)  
☐ EPA 3540c Soxhlet  
☐ \_\_\_\_\_

## Cleanup Method:

- ☐ EPA 3640a GPC  
☒ EPA 3620b Florisil  
☐ \_\_\_\_\_

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| Sample # and letter | Sample Wt (g) | Final Vol (mL) | Cleanup (x if needed) | Comments      |
|---------------------|---------------|----------------|-----------------------|---------------|
| 173724-002          | 30.75         | 20.0           | X                     |               |
| 173746-005          | 30.30         |                |                       |               |
| ↓ -010              | 29.88         |                |                       |               |
| ↓ -015              | 29.87         |                |                       |               |
| MS 259856           | 30.21         |                |                       |               |
| MS 7                | 30.02         |                |                       |               |
| MS 8                | 29.89         |                |                       |               |
| MS 9                | 29.62         |                |                       |               |
| 173762-001          | 30.37         |                |                       |               |
| ↓ -002              | 29.79         |                |                       |               |
| ↓ -003              | 30.06         |                |                       |               |
| 173735-001          | 29.53         |                |                       | MCS aw 8/2/04 |
| ↓ -002              | 29.916        |                |                       |               |
| ↓ -003              | 29.92         |                |                       |               |
| 173748-007          | 29.76         |                |                       |               |
| 173755-001          | 29.62         |                |                       | MCS           |
| ↓ -002              | 29.78         |                |                       |               |
| ↓ -003              | 30.18         |                |                       |               |
| 173759-001          | 29.54         |                |                       |               |
| ↓ -002              | 30.04         |                |                       |               |
| ↓ -003              | 29.81         |                |                       |               |
| ↓ -004              | 29.54         |                |                       |               |
| ↓ -005              | 30.38         |                |                       |               |
| 173760-001          | 29.77         | ✓              | ✓                     |               |

Sand weighed out for QC samples  
 dried with CH<sub>2</sub>Cl<sub>2</sub>-rinsed ☒ granular Na<sub>2</sub>SO<sub>4</sub> ☐ diatomaceous earth

0.02 mL of surrogate solution was added to all samples

1.0 mL of spike solution was added to all spikes

CH<sub>2</sub>Cl<sub>2</sub> (lot# EM44161): Acetone (lot# EM44085) was added to all

☒ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted

ASE Cellulose Filter used: NA

Soxhlets on at: ↓

Soxhlets off at: ↓

Extracts filtered through baked, CH<sub>2</sub>Cl<sub>2</sub>-rinsed powdered Na<sub>2</sub>SO<sub>4</sub>

Exchanged 2x with Hexane

Concentrated: ☒ to volumes as noted above ☐ to clean-up volume

Clean-up (if necessary): ☐ GPC (see GPC run log) ☒ Florisil

Mfg &amp; Lot # / LIMS # / Time

Initials / Date

|            |            |
|------------|------------|
| EM43310410 | LOW 8/2/04 |
| EM4404410  |            |
| 046509938  |            |
| 046508400  |            |
| ✓          |            |
| ✓          |            |
| NA         |            |
| ✓          |            |
| 03817450   |            |
| ✓ 03817450 |            |
| ✓          |            |
| ✓          |            |

Coral Moore 8/2/04  
 Extraction Chemist / Date

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Continued from page: 64Continued on page: 65

Steve 8/02/04  
 Reviewed by / Date

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☐ Extracts were cleaned up using Florisil cartridges  
 Florisil cartridges/ columns rinsed 3x with Hexane  
 Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone  
 Hexane  
 Acetone  
 Concentrated to volumes as noted above

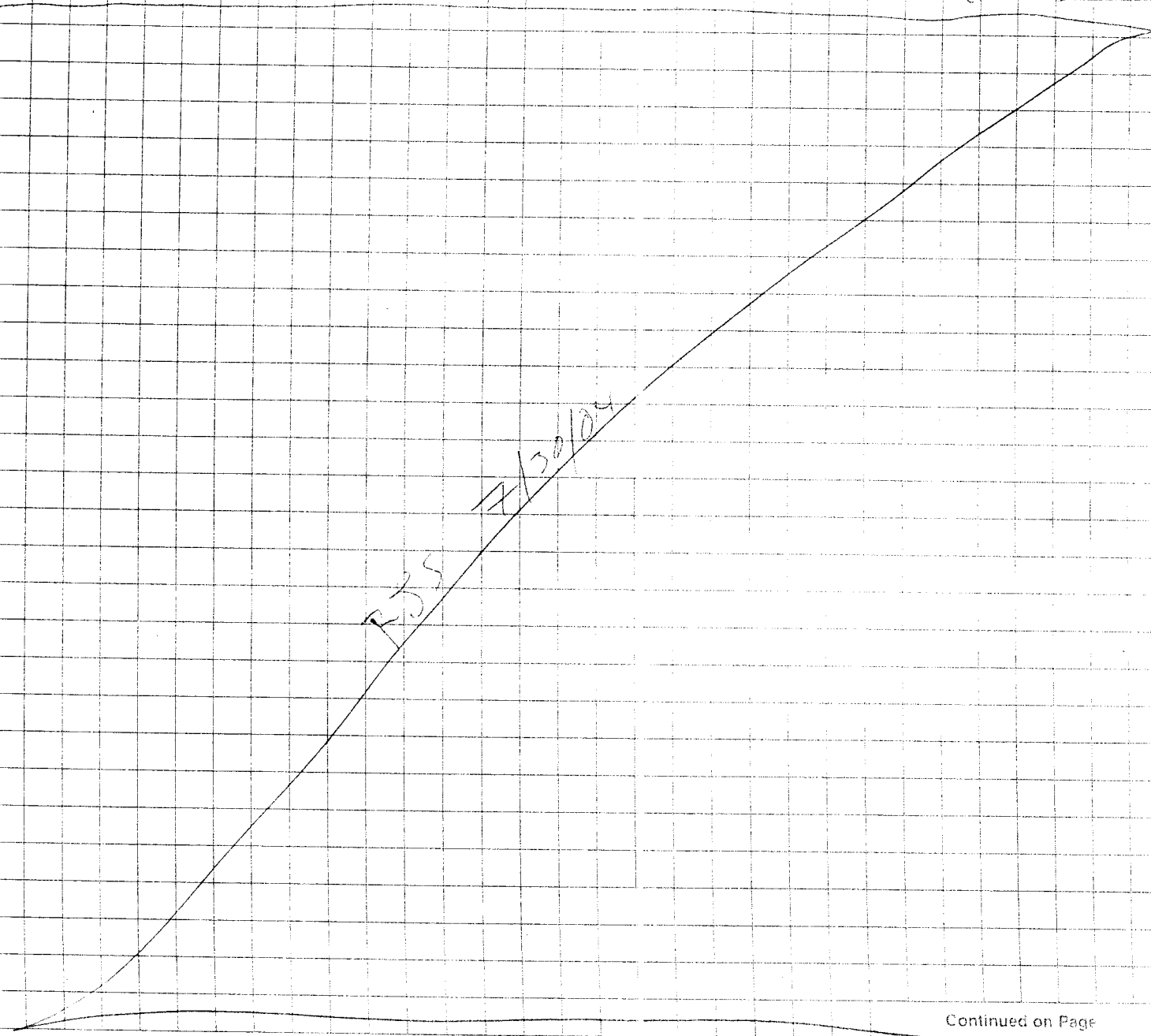
| Mfg & Lot # / Time / Program | Initials / Date |
|------------------------------|-----------------|
| Respire 204120-AD            | CLW/8/2/04      |
| BTCES95                      |                 |
| ↓                            |                 |
| BM43350                      |                 |
| ✓                            |                 |

Continued from page 65 \_\_\_\_\_  
Continued on page \_\_\_\_\_

Debra 8/2/04

Reviewed by / Date

| SAMPLE ID   | WEIGHT | ANALYSIS | COMMENTS   |
|-------------|--------|----------|------------|
| 173724-002  | 49.41  | TEH      | COMP (A-H) |
| 173726-001A | 50.11  |          |            |
| 3 002A      | 50.06  |          |            |
| 173728-001A | 49.79  |          |            |
| 173724-002  | 30.23  | 8081     | COMP (A-H) |



Continued on Page

*[Signature]*

Signed

7/30/04

Date

Read and Understood By

66

Signed

Date

| <u>SAMPLE ID</u>   | <u>WEIGHT</u>  | <u>ANALYSIS</u> | <u>COMMENTS</u> |
|--------------------|----------------|-----------------|-----------------|
| 173724-002<br>↓ ↓  | 30.25<br>30.01 | 8081<br>PCB     | Comp (A-H)<br>↓ |
| 173727-001A<br>↓ ↓ | 29.98<br>30.31 | 8081<br>PCB     |                 |
| 173728-001A<br>↓ ↓ | 30.08<br>29.94 | 8081<br>PCB     |                 |

RJS 7/30/04

Continued on Page

Person Chromatogram

RJS

Signed

7/30/04

Date

Signed

Date

| SAMPLE ID   | WEIGHT(g) | ANALYSIS | COMMENTS           |
|-------------|-----------|----------|--------------------|
| 173735-001A | 29.53     | 8081     |                    |
| ↓ -002 ↓    | 29.96     |          |                    |
| ↓ -003 ↓    | 29.92     |          |                    |
| 173748-007A | 29.76     |          |                    |
| 173755-001A | 29.42     |          | MSS                |
| ↓ -002 ↓    | 29.78     |          |                    |
| ↓ -003 ↓    | 30.19     |          |                    |
| 173759-001A | 29.54     |          |                    |
| ↓ -002 ↓    | 30.04     |          |                    |
| ↓ -003 ↓    | 29.81     |          |                    |
| ↓ -004 ↓    | 29.54     |          |                    |
| ↓ -005 ↓    | 30.38     |          |                    |
| 173760-001A | 29.77     |          |                    |
| 173762-001  | 30.37     |          | COMP 4 CORES A → D |
| ↓ -002 ↓    | 29.79     |          |                    |
| ↓ -003 ↓    | 30.06     |          |                    |
| MS          | 29.89     |          | 173755-001A        |
| MSD         | 29.62     |          | ↓                  |

JM 8/2/04

Continued on Page

Read and Understood By:

JM 8/2/04 68

Signed

Date

Signed

Date

| SAMPLE ID  | WEIGHT | ANALYSIS | COMMENTS      |
|------------|--------|----------|---------------|
| 173746-005 | 49.10  | TEH      | COMP (1-4)A   |
| ↓ 0.10     | 50.30  | ↓        | ↓ (6-9)A      |
| ↓ 0.15     | 50.18  | ↓        | ↓ (11-14)A    |
| 173746-005 | 30.30  | QOSI     | COMP (1-4)A   |
| ↓ 0.10     | 29.88  | ↓        | ↓ (6-9)A      |
| ↓ 0.15     | 29.87  | ↓        | ↓ (11-14)A    |
| MB         | 30.21  | ↓        | EM43310410    |
| LCS        | 30.02  | ↓        | ↓             |
| MS         | 29.98  | ↓        | 173746-007 R3 |
| MSD        | 29.94  | ↓        | 7/30          |
| 173746-005 | 30.29  | PCR      | COMP (1-4)A   |
| ↓ 0.10     | 30.00  | ↓        | ↓ (6-9)A      |
| ↓ 0.15     | 29.84  | ↓        | ↓ (11-14)A    |
| MB         | 29.58  | ↓        | EM43310410    |
| LCS        | 30.23  | ↓        | ↓             |
| MS         | 30.22  | ↓        | 173746-007    |
| MSD        | 30.03  | ↓        | ↓             |

7/30/04  
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Read and Understood By

7/30/04



## **PCBs Results & QC Summary**

| Polychlorinated Biphenyls (PCBs) |           |           |                         |
|----------------------------------|-----------|-----------|-------------------------|
| Lab #:                           | 173746    | Location: | GA-9 Stockpile Sampling |
| Client:                          | Geologica | Prep:     | EPA 3550                |
| Project#:                        | STANDARD  | Analysis: | EPA 8082                |
| Matrix:                          | Soil      | Sampled:  | 07/30/04                |
| Units:                           | ug/Kg     | Received: | 07/30/04                |
| Diln Fac:                        | 1.000     | Prepared: | 08/02/04                |
| Batch#:                          | 93396     | Analyzed: | 08/02/04                |

Field ID: GA9SSCOMP501-504      Basis: dry  
Type: SAMPLE      Moisture: 2%  
Lab ID: 173746-005      Cleanup Method: EPA 3665A

| Analyte      | Result | RL |
|--------------|--------|----|
| Aroclor-1016 | ND     | 12 |
| Aroclor-1221 | ND     | 24 |
| Aroclor-1232 | ND     | 12 |
| Aroclor-1242 | ND     | 12 |
| Aroclor-1248 | ND     | 12 |
| Aroclor-1254 | ND     | 12 |
| Aroclor-1260 | ND     | 12 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 120  | 63-140 |
| Decachlorobiphenyl | 110  | 46-151 |

Field ID: DUP073004COMP501-504      Basis: dry  
Type: SAMPLE      Moisture: 2%  
Lab ID: 173746-010      Cleanup Method: EPA 3665A

| Analyte      | Result | RL |
|--------------|--------|----|
| Aroclor-1016 | ND     | 12 |
| Aroclor-1221 | ND     | 24 |
| Aroclor-1232 | ND     | 12 |
| Aroclor-1242 | ND     | 12 |
| Aroclor-1248 | ND     | 12 |
| Aroclor-1254 | ND     | 12 |
| Aroclor-1260 | ND     | 12 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 110  | 63-140 |
| Decachlorobiphenyl | 94   | 46-151 |

ND= Not Detected  
RL= Reporting Limit  
Page 1 of 2

| Polychlorinated Biphenyls (PCBs) |           |           |                         |
|----------------------------------|-----------|-----------|-------------------------|
| Lab #:                           | 173746    | Location: | GA-9 Stockpile Sampling |
| Client:                          | Geologica | Prop:     | EPA 3550                |
| Project#:                        | STANDARD  | Analysis: | EPA 8082                |
| Matrix:                          | Soil      | Sampled:  | 07/30/04                |
| Units:                           | ug/Kg     | Received: | 07/30/04                |
| Diln Fac:                        | 1.000     | Prepared: | 08/02/04                |
| Batch#:                          | 93396     | Analyzed: | 08/02/04                |

Field ID: GA9SSCOMP505-508      Basis: dry  
Type: SAMPLE      Moisture: 3%  
Lab ID: 173746-015      Cleanup Method: EPA 3665A

| Analyte      | Result | RL |
|--------------|--------|----|
| Aroclor-1016 | ND     | 12 |
| Aroclor-1221 | ND     | 25 |
| Aroclor-1232 | ND     | 12 |
| Aroclor-1242 | ND     | 12 |
| Aroclor-1248 | ND     | 12 |
| Aroclor-1254 | ND     | 12 |
| Aroclor-1260 | ND     | 12 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 104  | 63-140 |
| Decachlorobiphenyl | 94   | 46-151 |

Type: BLANK      Basis: as received  
Lab ID: QC259814      Cleanup Method: EPA 3665A

| Analyte      | Result | RL |
|--------------|--------|----|
| Aroclor-1016 | ND     | 12 |
| Aroclor-1221 | ND     | 24 |
| Aroclor-1232 | ND     | 12 |
| Aroclor-1242 | ND     | 12 |
| Aroclor-1248 | ND     | 12 |
| Aroclor-1254 | ND     | 12 |
| Aroclor-1260 | ND     | 12 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 117  | 63-140 |
| Decachlorobiphenyl | 113  | 46-151 |

ND= Not Detected  
RL= Reporting Limit  
Page 2 of 2

## Batch QC Report

| Polychlorinated Biphenyls (PCBs) |             |           |                         |
|----------------------------------|-------------|-----------|-------------------------|
| Lab #:                           | 173746      | Location: | GA-9 Stockpile Sampling |
| Client:                          | Geologica   | Prep:     | EPA 3550                |
| Project#:                        | STANDARD    | Analysis: | EPA 8082                |
| Type:                            | LCS         | Diln Fac: | 1.000                   |
| Lab ID:                          | QC259815    | Batch#:   | 93396                   |
| Matrix:                          | Soil        | Prepared: | 08/02/04                |
| Units:                           | ug/Kg       | Analyzed: | 08/02/04                |
| Basis:                           | as received |           |                         |

Cleanup Method: EPA 3665A

| Analyte      | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Aroclor-1016 | 165.4  | 134.9  | 82   | 80-129 |
| Aroclor-1260 | 165.4  | 142.7  | 86   | 80-131 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 103  | 63-140 |
| Decachlorobiphenyl | 93   | 46-151 |

## Batch QC Report

| Polychlorinated Biphenyls (PCBs) |                      |           |                         |
|----------------------------------|----------------------|-----------|-------------------------|
| Lab #:                           | 173746               | Location: | GA-9 Stockpile Sampling |
| Client:                          | Geologica            | Prep:     | EPA 3550                |
| Project#:                        | STANDARD             | Analysis: | EPA 8082                |
| Field ID:                        | DUP073004COMP501-504 | Batch#:   | 93396                   |
| MSS Lab ID:                      | 173746-010           | Sampled:  | 07/30/04                |
| Matrix:                          | Soil                 | Received: | 07/30/04                |
| Units:                           | ug/Kg                | Prepared: | 08/02/04                |
| Basis:                           | dry                  | Analyzed: | 08/04/04                |
| Diln Fac:                        | 1.000                |           |                         |

Type: MS  
Lab ID: QC259816  
Moisture: 2%  
Cleanup Method: EPA 3665A

| Analyte      | MSS Result | Spiked | Result | %REC | Limits |
|--------------|------------|--------|--------|------|--------|
| Aroclor-1016 | <2.245     | 168.8  | 158.1  | 94   | 65-155 |
| Aroclor-1260 | <1.735     | 168.8  | 168.2  | 100  | 63-127 |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 120  | 63-140 |
| Decachlorobiphenyl | 98   | 46-151 |

Type: MSD  
Lab ID: QC259817  
Moisture: 2%  
Cleanup Method: EPA 3665A

| Analyte      | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Aroclor-1016 | 169.9  | 162.3  | 96   | 65-155 | 2   | 27  |
| Aroclor-1260 | 169.9  | 166.1  | 98   | 63-127 | 2   | 34  |

| Surrogate          | %REC | Limits |
|--------------------|------|--------|
| TCMX               | 121  | 63-140 |
| Decachlorobiphenyl | 96   | 46-151 |

INITIAL CALIBRATION REPORT FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW  
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Calibration levels:

| # | Filename | Segment      | Sample     | num | Analyzed          | Standards |
|---|----------|--------------|------------|-----|-------------------|-----------|
| 1 | 215_013  | 204310220013 | pcb10_2    |     | 02-AUG-2004 21:40 | 04WS0970  |
| 2 | 215_014  | 204310220014 | pcb25_5    |     | 02-AUG-2004 22:13 | 04WS0960  |
| 3 | 215_015  | 204310220015 | pcb100_20  |     | 02-AUG-2004 22:46 | 04WS0961  |
| 4 | 215_016  | 204310220016 | pcb250_50  |     | 02-AUG-2004 23:19 | 04WS0962  |
| 5 | 215_017  | 204310220017 | pcb500_100 |     | 02-AUG-2004 23:52 | 04WS0963  |
| 6 | 215_018  | 204310220018 | pcb750_150 |     | 03-AUG-2004 00:25 | 04WS0964  |
| 7 | 215_019  | 204310220019 | pcb1K_200  |     | 03-AUG-2004 00:59 | 04WS0967  |

| Analyte               | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type | X | a0       | a1 | a2 | units | avg    | XRSD | MR^2 | Flags |
|-----------------------|----|--------|--------|--------|--------|--------|--------|--------|------|---|----------|----|----|-------|--------|------|------|-------|
| Aroclor-1016 Peak # 1 | A  | 222.19 | 249.72 | 232.92 | 240.39 | 205.76 | 174.68 | 193.06 | AVRG | R | 0.004609 |    |    | pg    | 216.96 | 12   | .99  | 20    |
| Aroclor-1016 Peak # 2 | A  | 562.53 | 501.92 | 460.15 | 463.25 | 377.78 | 318.34 | 349.18 | AVRG | R | 0.002308 |    |    | pg    | 433.31 | 20   | .99  | 20    |
| Aroclor-1016 Peak # 3 | A  | 404.17 | 319.20 | 322.00 | 333.10 | 430.30 | 307.03 | 410.20 | AVRG | R | 0.002133 |    |    | pg    | 400.31 | 13   | .99  | 20    |
| Aroclor-1016 Peak # 4 | A  | 311.49 | 350.77 | 348.34 | 364.70 | 297.87 | 262.44 | 298.62 | AVRG | R | 0.003133 |    |    | pg    | 319.17 | 11   | .99  | 20    |
| Aroclor-1016 Peak # 5 | A  | 272.20 | 286.48 | 281.40 | 288.62 | 237.23 | 198.13 | 226.63 | AVRG | R | 0.003909 |    |    | pg    | 255.81 | 14   | .99  | 20    |
| Aroclor-1260 Peak # 1 | A  | 534.49 | 557.25 | 558.61 | 543.99 | 422.20 | 344.29 | 396.21 | AVRG | R | 0.002085 |    |    | pg    | 479.58 | 19   | .99  | 20    |
| Aroclor-1260 Peak # 2 | A  | 904.42 | 888.70 | 849.86 | 860.45 | 672.00 | 546.32 | 638.04 | AVRG | R | 0.001306 |    |    | pg    | 765.68 | 19   | .99  | 20    |
| Aroclor-1260 Peak # 3 | A  | 480.31 | 419.58 | 458.34 | 454.57 | 367.56 | 297.31 | 349.09 | AVRG | R | 0.002476 |    |    | pg    | 403.82 | 17   | .99  | 20    |
| Aroclor-1260 Peak # 4 | A  | 363.33 | 365.28 | 397.28 | 433.25 | 344.26 | 284.33 | 341.69 | AVRG | R | 0.002767 |    |    | pg    | 361.35 | 13   | .99  | 20    |
| Aroclor-1260 Peak # 5 | A  | 868.22 | 928.30 | 936.04 | 985.95 | 789.30 | 648.83 | 768.31 | AVRG | R | 0.001181 |    |    | pg    | 846.42 | 14   | .99  | 20    |
| TCMX                  | A  | 9152.2 | 9977.5 | 9263.6 | 9902.9 | 8412.0 | 7286.0 | 8156.7 | AVRG | R | 1.126E-4 |    |    | pg    | 8878.7 | 11   | .99  | 20    |
| Decachlorobiphenyl    | A  | 10877  | 10709  | 9872.1 | 12832  | 7437.8 |        |        | AVRG | R | 9.666E-5 |    |    | pg    | 10346  | 19   | .99  | 20    |
| Aroclor-1016 Peak # 1 | B  | 242.83 | 242.17 | 239.76 | 258.59 | 221.85 | 183.59 | 206.89 | AVRG | R | 0.004387 |    |    | pg    | 227.95 | 11   | .99  | 20    |
| Aroclor-1016 Peak # 2 | B  | 301.07 | 317.39 | 329.13 | 342.65 | 279.81 | 238.92 | 270.55 | AVRG | R | 0.003366 |    |    | pg    | 297.07 | 12   | .99  | 20    |
| Aroclor-1016 Peak # 3 | B  | 1225.7 | 1232.9 | 1179.3 | 1198.8 | 944.96 | 806.07 | 890.17 | AVRG | R | 9.361E-4 |    |    | pg    | 1068.3 | 17   | .99  | 20    |
| Aroclor-1016 Peak # 4 | B  | 465.77 | 502.61 | 466.00 | 483.84 | 385.83 | 333.37 | 369.79 | AVRG | R | 0.002328 |    |    | pg    | 429.60 | 15   | .99  | 20    |
| Aroclor-1016 Peak # 5 | B  | 322.46 | 326.55 | 314.99 | 326.70 | 268.97 | 229.90 | 262.36 | AVRG | R | 0.003411 |    |    | pg    | 293.13 | 13   | .99  | 20    |
| Aroclor-1260 Peak # 1 | B  | 804.92 | 843.20 | 864.53 | 921.86 | 729.59 | 623.19 | 723.59 | AVRG | R | 0.001270 |    |    | pg    | 787.27 | 13   | .99  | 20    |
| Aroclor-1260 Peak # 2 | B  | 1254.5 | 1305.5 | 1297.8 | 1345.0 | 1066.2 | 886.63 | 1041.3 | AVRG | R | 8.540E-4 |    |    | pg    | 1171.0 | 15   | .99  | 20    |

Curves: AVR6: Average response factor  
Instrument amount = a0 + response \* a1 + response^2 \* a2  
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INITIAL CALIBRATION REPORT FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW  
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

| Analyte               | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type X | a0 | a1       | a2 | units | avg    | %RSD | MnR^2 | MxRSD | Flags |
|-----------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|----|----------|----|-------|--------|------|-------|-------|-------|
| Aroclor-1260 Peak # 3 | B  | 836.14 | 872.35 | 845.26 | 901.05 | 740.38 | 622.22 | 753.05 | AVRG R |    | 0.001257 |    | pg    | 795.78 | 12   | .99   | 20    |       |
| Aroclor-1260 Peak # 4 | B  | 708.28 | 658.49 | 677.16 | 709.83 | 592.01 | 499.26 | 605.88 | AVRG R |    | 0.001573 |    | pg    | 635.85 | 12   | .99   | 20    |       |
| Aroclor-1260 Peak # 5 | B  | 1689.9 | 1627.7 | 1611.2 | 1813.1 | 1468.9 | 1232.9 | 1501.8 | AVRG R |    | 6.395E-4 |    | pg    | 1563.6 | 12   | .99   | 20    |       |
| TCMX                  | B  | 10333  | 11533  | 11102  | 11785  | 9884.1 | 8500.3 | 9395.7 | AVRG R |    | 9.651E-5 |    | pg    | 10362  | 12   | .99   | 20    |       |
| Decachlorobiphenyl    | B  | 12402  | 11918  | 11586  | 15972  | 9357.4 |        |        | AVRG R |    | 8.165E-5 |    | pg    | 12247  | 19   | .99   | 20    |       |

INITIAL CALIBRATION REPORT FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH  
Calnum: 254304934001 Name: Type: (normal) Date: 29-JUL-2004 18:14 Inj Vol (uL): 1

Calibration levels:

| # | Filename | Seqnum       | Samplenum  | Analyzed          | Standards |
|---|----------|--------------|------------|-------------------|-----------|
| 1 | 211_005  | 254304934005 | pcb10_2    | 29-JUL-2004 18:14 | 04WS0970  |
| 2 | 211_006  | 254304934006 | pcb25_5    | 29-JUL-2004 18:42 | 04WS0960  |
| 3 | 211_007  | 254304934007 | pcb100_20  | 29-JUL-2004 19:10 | 04WS0961  |
| 4 | 211_008  | 254304934008 | pcb250_50  | 29-JUL-2004 19:39 | 04WS0962  |
| 5 | 211_009  | 254304934009 | pcb500_100 | 29-JUL-2004 20:07 | 04WS0963  |
| 6 | 211_011  | 254304934011 | pcb1K200   | 29-JUL-2004 21:04 | 04WS0967  |
| 7 | 211_017  | 254304934017 | pcb750_150 | 30-JUL-2004 12:51 | 04WS0964  |

| Analyte               | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type | X | a0       | a1 | a2 | units | avg    | XRSD | MNR^2 | MRSD | Flags |
|-----------------------|----|--------|--------|--------|--------|--------|--------|--------|------|---|----------|----|----|-------|--------|------|-------|------|-------|
| Aroclor-1016 Peak # 1 | A  | 292.55 | 278.51 | 295.02 | 282.27 | 308.69 | 314.52 | 285.01 | AVRG | R | 0.003404 |    |    | pg    | 293.80 | 5    | .99   | 20   |       |
| Aroclor-1016 Peak # 2 | A  | 742.30 | 717.64 | 681.30 | 654.37 | 668.93 | 670.47 | 645.96 | AVRG | R | 0.001464 |    |    | pg    | 683.00 | 5    | .99   | 20   |       |
| Aroclor-1016 Peak # 3 | A  | 502.50 | 480.04 | 454.02 | 430.01 | 432.48 | 432.2  | 413.82 | AVRG | K | 0.001107 |    |    | pg    | 403.19 | 9    | .99   | 20   |       |
| Aroclor-1016 Peak # 4 | A  | 507.72 | 577.66 | 478.79 | 535.03 | 494.51 | 512.04 | 557.55 | AVRG | R | 0.001911 |    |    | pg    | 523.33 | 7    | .99   | 20   |       |
| Aroclor-1016 Peak # 5 | A  | 396.32 | 378.18 | 378.71 | 363.16 | 388.57 | 402.87 | 385.21 | AVRG | R | 0.002599 |    |    | pg    | 384.72 | 3    | .99   | 20   |       |
| Aroclor-1260 Peak # 1 | A  | 854.50 | 782.64 | 729.07 | 662.20 | 690.45 | 804.28 | 681.77 | AVRG | R | 0.001345 |    |    | pg    | 743.56 | 10   | .99   | 20   |       |
| Aroclor-1260 Peak # 2 | A  | 1139.6 | 1043.2 | 1001.8 | 965.97 | 1028.7 | 1310.5 | 1063.5 | AVRG | R | 9.267E-4 |    |    | pg    | 1079.1 | 11   | .99   | 20   |       |
| Aroclor-1260 Peak # 3 | A  | 628.17 | 594.47 | 556.15 | 529.26 | 538.94 | 599.39 | 512.53 | AVRG | R | 0.001768 |    |    | pg    | 565.56 | 8    | .99   | 20   |       |
| Aroclor-1260 Peak # 4 | A  | 676.75 | 602.87 | 549.15 | 535.51 | 554.39 | 637.28 | 532.00 | AVRG | R | 0.001712 |    |    | pg    | 583.99 | 10   | .99   | 20   |       |
| Aroclor-1260 Peak # 5 | A  | 1670.8 | 1540.7 | 1301.9 | 1284.4 | 1370.1 | 2009.9 | 1508.0 | AVRG | R | 6.551E-4 |    |    | pg    | 1526.5 | 17   | .99   | 20   |       |
| TCMX                  | A  | 22280  | 21913  | 20983  | 23299  | 33010  | 26979  | 30374  | AVRG | R | 3.914E-5 |    |    | pg    | 25548  | 18   | .99   | 20   |       |
| Decachlorobiphenyl    | A  | 12975  | 11006  | 10154  | 15423  | 14252  | 13112  | 14114  | AVRG | R | 7.689E-5 |    |    | pg    | 13005  | 14   | .99   | 20   |       |
| Aroclor-1016 Peak # 1 | B  | 326.92 | 317.09 | 297.49 | 333.56 | 298.51 | 356.84 | 291.81 | AVRG | R | 0.003150 |    |    | pg    | 317.46 | 7    | .99   | 20   |       |
| Aroclor-1016 Peak # 2 | B  | 506.88 | 467.84 | 435.73 | 476.74 | 424.95 | 483.29 | 375.81 | AVRG | R | 0.002207 |    |    | pg    | 453.03 | 10   | .99   | 20   |       |
| Aroclor-1016 Peak # 3 | B  | 557.30 | 511.14 | 487.77 | 582.71 | 505.09 | 599.60 | 431.23 | AVRG | R | 0.001905 |    |    | pg    | 524.98 | 11   | .99   | 20   |       |
| Aroclor-1016 Peak # 4 | B  | 386.58 | 371.88 | 343.44 | 369.05 | 330.61 | 396.78 | 281.10 | AVRG | R | 0.002823 |    |    | pg    | 354.20 | 11   | .99   | 20   |       |
| Aroclor-1016 Peak # 5 | B  | 433.35 | 396.33 | 380.59 | 433.07 | 390.73 | 475.23 | 326.48 | AVRG | R | 0.002468 |    |    | pg    | 405.11 | 12   | .99   | 20   |       |
| Aroclor-1260 Peak # 1 | B  | 606.30 | 600.88 | 602.06 | 658.09 | 583.01 | 785.77 | 471.36 | AVRG | R | 0.001625 |    |    | pg    | 615.35 | 15   | .99   | 20   |       |
| Aroclor-1260 Peak # 2 | B  | 494.62 | 500.02 | 546.54 | 618.16 | 573.50 |        | 461.84 | AVRG | R | 0.001878 |    |    | pg    | 532.45 | 11   | .99   | 20   |       |

Curves: AVR6: Average response factor

Instrument amount = a0 + response \* a1 + response^2 \* a2



INITIAL CALIBRATION REPORT FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Instrument: GC22      Gas Chromatograph #22 ECD      Reviewed By: MCH  
Calnum: 254304934001      Name:      Type: (normal)      Date: 29-JUL-2004 18:14 Inj Vol (uL): 1

| Analyte               | Ch | L1     | L2     | L3     | L4     | L5     | L6     | L7     | Type X | a0 | a1       | a2 | units | avg    | %RSD | MnR^2 | MxRSD | Flags |
|-----------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|----|----------|----|-------|--------|------|-------|-------|-------|
| Aroclor-1260 Peak # 3 | B  | 317.25 | 339.17 | 407.23 | 455.97 | 406.08 | 519.62 | 319.29 | AVRG R |    | 0.002532 |    | pg    | 394.94 | 19   | .99   | 20    |       |
| Aroclor-1260 Peak # 4 | B  | 325.69 | 333.74 | 416.62 | 448.53 | 396.73 | 509.07 | 309.58 | AVRG R |    | 0.002555 |    | pg    | 391.42 | 19   | .99   | 20    |       |
| Aroclor-1260 Peak # 5 | B  | 1040.8 | 1050.7 | 1195.7 | 1197.2 | 1044.6 | 1461.0 | 794.36 | AVRG R |    | 8.992E-4 |    | pg    | 1112.1 | 18   | .99   | 20    |       |
| TCMX                  | B  | 22344  | 20500  | 18808  | 23887  | 26346  | 24423  | 25869  | AVRG R |    | 4.316E-5 |    | pg    | 23168  | 12   | .99   | 20    |       |
| Decachlorobiphenyl    | B  | 9846.5 | 10002  | 8807.3 | 11384  | 7717.8 | 11075  | 6457.5 | AVRG R |    | 1.072E-4 |    | pg    | 9327.1 | 19   | .99   | 20    |       |

CONTINUING CALIBRATION SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       | SpkAmt | QntAmt | Units | %D  | Max | %D | Flags |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|-----|-----|----|-------|
|        |    |              |                   |              |             | RF/CF | RF/CF |        |        |       |     |     |    |       |
| GC06   | A  | 204311979025 | 04-AUG-2004 03:25 | 204310220001 | 02-AUG-2004 |       |       | 500.00 | 483.77 | pg    | -3  | 15  |    |       |
| GC06   | B  | 204311979025 | 04-AUG-2004 03:25 | 204310220001 | 02-AUG-2004 |       |       | 500.00 | 472.91 | pg    | -5  | 15  |    |       |
| GC06   | A  | 204311979043 | 04-AUG-2004 13:46 | 204310220001 | 02-AUG-2004 |       |       | 250.00 | 222.68 | pg    | -11 | 15  |    |       |
| GC06   | B  | 204311979043 | 04-AUG-2004 13:46 | 204310220001 | 02-AUG-2004 |       |       | 250.00 | 212.63 | pg    | -15 | 15  |    |       |
| GC22   | A  | 254310347010 | 02-AUG-2004 16:37 | 254304934001 | 29-JUL-2004 |       |       | 500.00 | 438.73 | pg    | -12 | 15  |    |       |
| GC22   | B  | 254310347010 | 02-AUG-2004 16:37 | 254304934001 | 29-JUL-2004 |       |       | 500.00 | 539.28 | pg    | 8   | 15  |    |       |
| GC22   | A  | 254310347026 | 03-AUG-2004 00:49 | 254304934001 | 29-JUL-2004 |       |       | 250.00 | 217.67 | pg    | -13 | 15  |    |       |
| GC22   | B  | 254310347026 | 03-AUG-2004 00:49 | 254304934001 | 29-JUL-2004 |       |       | 250.00 | 253.36 | pg    | 1   | 15  |    |       |

CONTINUING CALIBRATION SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       | SpkAmt | QntAmt | Units | XD  | Max | XD | Flags |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|-----|-----|----|-------|
|        |    |              |                   |              |             | RF/CF | RF/CF |        |        |       |     |     |    |       |
| GC06   | A  | 204311979025 | 04-AUG-2004 03:25 | 204310220001 | 02-AUG-2004 |       |       | 500.00 | 488.90 | pg    | -2  | 15  |    |       |
| GC06   | B  | 204311979025 | 04-AUG-2004 03:25 | 204310220001 | 02-AUG-2004 |       |       | 500.00 | 488.95 | pg    | -2  | 15  |    |       |
| GC06   | A  | 204311979043 | 04-AUG-2004 13:46 | 204310220001 | 02-AUG-2004 |       |       | 250.00 | 220.19 | pg    | -12 | 15  |    |       |
| GC06   | B  | 204311979043 | 04-AUG-2004 13:46 | 204310220001 | 02-AUG-2004 |       |       | 250.00 | 214.38 | pg    | -14 | 15  |    |       |
| GC22   | A  | 254310347010 | 02-AUG-2004 16:37 | 254304934001 | 29-JUL-2004 |       |       | 500.00 | 430.07 | pg    | -14 | 15  |    |       |
| GC22   | B  | 254310347010 | 02-AUG-2004 16:37 | 254304934001 | 29-JUL-2004 |       |       | 500.00 | 564.14 | pg    | 13  | 15  |    |       |
| GC22   | A  | 254310347026 | 03-AUG-2004 00:49 | 254304934001 | 29-JUL-2004 |       |       | 250.00 | 215.24 | pg    | -14 | 15  |    |       |
| GC22   | B  | 254310347026 | 03-AUG-2004 00:49 | 254304934001 | 29-JUL-2004 |       |       | 250.00 | 287.17 | pg    | 15  | 15  |    |       |

CONTINUING CALIBRATION SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Analyte: TCMX

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg    |        | SpkAmt | QntAmt | Units | %D  | Max | %D | Flags |
|--------|----|--------------|-------------------|--------------|-------------|--------|--------|--------|--------|-------|-----|-----|----|-------|
|        |    |              |                   |              |             | RF/CF  | RF/CF  |        |        |       |     |     |    |       |
| GC06   | A  | 204311979025 | 04-AUG-2004 03:25 | 204310220001 | 02-AUG-2004 | 8878.7 | 8986.2 | 100.00 | 101.21 | pg    | 1   | 15  |    |       |
| GC06   | B  | 204311979025 | 04-AUG-2004 03:25 | 204310220001 | 02-AUG-2004 | 10362  | 10246  | 100.00 | 98.877 | pg    | -1  | 15  |    |       |
| GC06   | A  | 204311979043 | 04-AUG-2004 13:46 | 204310220001 | 02-AUG-2004 | 8878.7 | 8080.3 | 50.000 | 45.504 | pg    | -9  | 15  |    |       |
| GC06   | B  | 204311979043 | 04-AUG-2004 13:46 | 204310220001 | 02-AUG-2004 | 10362  | 9352.5 | 50.000 | 45.129 | pg    | -10 | 15  |    |       |
| GC22   | A  | 254310347010 | 02-AUG-2004 16:37 | 254304934001 | 29-JUL-2004 | 25548  | 29034  | 100.00 | 113.64 | pg    | 14  | 15  |    |       |
| GC22   | B  | 254310347010 | 02-AUG-2004 16:37 | 254304934001 | 29-JUL-2004 | 23168  | 29785  | 100.00 | 128.56 | pg    | 29  | 15  |    |       |
| GC22   | A  | 254310347026 | 03-AUG-2004 00:49 | 254304934001 | 29-JUL-2004 | 25548  | 21213  | 50.000 | 41.515 | pg    | -17 | 15  |    |       |
| GC22   | B  | 254310347026 | 03-AUG-2004 00:49 | 254304934001 | 29-JUL-2004 | 23168  | 22263  | 50.000 | 48.047 | pg    | -4  | 15  |    |       |

net  
c+ in house  
c- limit

Laboratory Limits:  
63-140%  
on 8/6/04

CONTINUING CALIBRATION SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg    |        | SpkAmt | QntAmt | Units | %D  | Max | %D | Flags |
|--------|----|--------------|-------------------|--------------|-------------|--------|--------|--------|--------|-------|-----|-----|----|-------|
|        |    |              |                   |              |             | RF/CF  | RF/CF  |        |        |       |     |     |    |       |
| GC06   | A  | 204311979025 | 04-AUG-2004 03:25 | 204310220001 | 02-AUG-2014 | 10346  | 8106.4 | 100.00 | 78.356 | pg    | -22 | 15  |    | c-    |
| GC06   | B  | 204311979025 | 04-AUG-2004 03:25 | 204310220001 | 02-AUG-2014 | 12247  | 9828.3 | 100.00 | 80.250 | pg    | -20 | 15  |    | c-    |
| GC06   | A  | 204311979043 | 04-AUG-2004 13:46 | 204310220001 | 02-AUG-2014 | 10346  | 10432  | 50.000 | 50.416 | pg    | 1   | 15  |    |       |
| GC06   | B  | 204311979043 | 04-AUG-2004 13:46 | 204310220001 | 02-AUG-2014 | 12247  | 12244  | 50.000 | 49.989 | pg    | 0   | 15  |    |       |
| GC22   | A  | 254310347010 | 02-AUG-2004 16:37 | 254304934001 | 29-JUL-2014 | 13005  | 12291  | 100.00 | 94.510 | pg    | -5  | 15  |    |       |
| GC22   | B  | 254310347010 | 02-AUG-2004 16:37 | 254304934001 | 29-JUL-2014 | 9327.1 | 7782.6 | 100.00 | 83.440 | pg    | -17 | 15  |    | c-    |
| GC22   | A  | 254310347026 | 03-AUG-2004 00:49 | 254304934001 | 29-JUL-2014 | 13005  | 15554  | 50.000 | 59.801 | pg    | 20  | 15  |    | c+    |
| GC22   | B  | 254310347026 | 03-AUG-2004 00:49 | 254304934001 | 29-JUL-2014 | 9327.1 | 10658  | 50.000 | 57.133 | pg    | 14  | 15  |    | c+    |

Laboratory Limits:  
46-151%  
as follows

+ = high bias    - = low bias    c = CCV  
Page 1 of 1

SEQUENCE SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Sequence: 254304934 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 29-JUL-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type | Sample     | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Std | Used | >LR |
|-----|----------|------|------------|-------|--------|-------------|-------|-----|-----|----|----|----|-----|------|-----|
| 004 | 211_004  | X    | hex        |       |        | 29-JUL-2004 | 17:45 | 1.0 |     |    |    |    |     |      |     |
| 005 | 211_005  | ICAL | pcb10_2    |       |        | 29-JUL-2004 | 18:14 | 1.0 |     |    |    |    | 1   |      |     |
| 006 | 211_006  | ICAL | pcb25_5    |       |        | 29-JUL-2004 | 18:42 | 1.0 |     |    |    |    | 2   |      |     |
| 007 | 211_007  | ICAL | pcb100_20  |       |        | 29-JUL-2004 | 19:10 | 1.0 |     |    |    |    | 3   |      |     |
| 008 | 211_008  | ICAL | pcb250_50  |       |        | 29-JUL-2004 | 19:39 | 1.0 |     |    |    |    | 4   |      |     |
| 009 | 211_009  | ICAL | pcb500_100 |       |        | 29-JUL-2004 | 20:07 | 1.0 |     |    |    |    | 5   |      |     |
| 010 | 211_010  | X    | pcb750_150 |       |        | 29-JUL-2004 | 20:35 | 1.0 |     |    |    |    | 6   |      |     |
| 011 | 211_011  | ICAL | pcb1K200   |       |        | 29-JUL-2004 | 21:04 | 1.0 |     |    |    |    | 7   |      |     |
| 012 | 211_012  | X    | hexane     |       |        | 29-JUL-2004 | 21:32 | 1.0 |     |    |    |    |     |      |     |
| 017 | 211_017  | ICAL | pcb750_150 |       |        | 30-JUL-2004 | 12:51 | 1.0 |     |    |    |    | 6   |      |     |
| 019 | 211_019  | X    | ccv        |       |        | 30-JUL-2004 | 13:48 | 1.0 |     |    |    |    | 8   |      |     |
| 020 | 211_020  | X    | ccv        |       |        | 30-JUL-2004 | 14:16 | 1.0 |     | 1  |    |    | 8   |      |     |
| 021 | 211_021  | ICV  | accu_1660  |       |        | 30-JUL-2004 | 14:44 | 1.0 |     | 1  |    |    | 9   |      |     |
| 022 | 211_022  | X    | hex        |       |        | 30-JUL-2004 | 15:13 | 1.0 |     |    |    |    |     |      |     |

Std's used: 1=04WS0970 2=04WS0960 3=04WS0961 4=04WS0962 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423

SEQUENCE SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Sequence: 204310220 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 02-AUG-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename Type | Samplenum  | Batch Matrix Analyzed | IDF | IOC SPK uL | VL pH Stds Used | >LR |
|-----|---------------|------------|-----------------------|-----|------------|-----------------|-----|
| 002 | 215_002 X     | ccv        | 02-AUG-2004 10:20     | 1.0 |            | 1               |     |
| 003 | 215_003 CCV   | pcb250_50  | 02-AUG-2004 10:53     | 1.0 | 1          | 1               |     |
| 012 | 215_012 X     | hex        | 02-AUG-2004 21:06     | 1.0 |            |                 |     |
| 013 | 215_013 ICAL  | pcb10_2    | 02-AUG-2004 21:40     | 1.0 |            | 2               |     |
| 014 | 215_014 ICAL  | pcb25_5    | 02-AUG-2004 22:13     | 1.0 |            | 3               |     |
| 015 | 215_015 ICAL  | pcb100_20  | 02-AUG-2004 22:46     | 1.0 |            | 4               |     |
| 016 | 215_016 ICAL  | pcb250_50  | 02-AUG-2004 23:19     | 1.0 |            | 1               |     |
| 017 | 215_017 ICAL  | pcb500_100 | 02-AUG-2004 23:52     | 1.0 |            | 5               |     |
| 018 | 215_018 ICAL  | pcb750_150 | 03-AUG-2004 00:25     | 1.0 |            | 6               |     |
| 019 | 215_019 ICAL  | pcb1K_200  | 03-AUG-2004 00:59     | 1.0 |            | 7               |     |
| 021 | 215_021 ICV   | accu_1660  | 03-AUG-2004 02:05     | 1.0 | 1          | 8               |     |
| 022 | 215_022 X     | icv        | 03-AUG-2004 02:38     | 1.0 |            | 8               |     |
| 023 | 215_023 X     | icv        | 03-AUG-2004 03:11     | 1.0 |            | 9               |     |
| 026 | 215_026 ICAL  | pcb250_50  | 03-AUG-2004 12:25     | 1.0 |            | 1               |     |

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423

SEQUENCE SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Sequence: 254310347 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 02-AUG-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF   | PDF | IOC    | SPK | uL | Std | Used | >LR |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|--------|-----|----|-----|------|-----|
| 002 | 215_002  | CCV    | pcb250_50  |       |        | 02-AUG-2004 | 12:27 | 1.0 |        |     | 1  | 1   |      |     |
| 003 | 215_003  | X      | ccv        |       |        | 02-AUG-2004 | 12:56 | 1.0 |        |     |    | 1   |      |     |
| 005 | 215_005  | LCS    | QC259510   | 93318 | Soil   | 02-AUG-2004 | 14:05 | 1.0 | 0.8389 | 1   | 4  | 1   | spk  |     |
| 006 | 215_006  | LCS    | QC259619   | 93346 | Soil   | 02-AUG-2004 | 14:40 | 1.0 | 0.8472 | 1   |    | 1   |      |     |
| 007 | 215_007  | SAMPLE | 173741-001 | 93346 | Soil   | 02-AUG-2004 | 15:10 | 1.0 | 0.8331 | 1   | 1  | 1   |      |     |
| 009 | 215_009  | LCS    | QC259510   | 93318 | Soil   | 02-AUG-2004 | 16:09 | 1.0 |        |     |    |     |      |     |
| 010 | 215_010  | CCV    | pcb500_100 |       |        | 02-AUG-2004 | 16:37 | 1.0 | 1.0    |     |    | 1   | 2    |     |
| 011 | 215_011  | X      | ccv        |       |        | 02-AUG-2004 | 17:11 | 1.0 |        |     |    |     | 2    |     |
| 012 | 215_012  | X      | ccv        |       |        | 02-AUG-2004 | 18:12 | 1.0 | 1.0    |     |    | 1   | 3    |     |
| 013 | 215_013  | CCV    | ar1254     |       |        | 02-AUG-2004 | 18:41 | 1.0 | 1.0    |     |    | 1   | 3    |     |
| 015 | 215_015  | BLANK  | QC259814   | 93396 | Soil   | 02-AUG-2004 | 19:37 | 1.0 | 0.8452 |     |    | 1   |      |     |
| 016 | 215_016  | LCS    | QC259815   | 93396 | Soil   | 02-AUG-2004 | 20:06 | 1.0 | 0.827  | 2   |    | 1   |      |     |
| 017 | 215_017  | SAMPLE | 173746-005 | 93396 | Soil   | 02-AUG-2004 | 20:34 | 1.0 | 0.8254 |     |    | 1   |      |     |
| 018 | 215_018  | MSS    | 173746-010 | 93396 | Soil   | 02-AUG-2004 | 21:02 | 1.0 | 0.8333 | 1   |    | 1   |      |     |
| 019 | 215_019  | SAMPLE | 173746-015 | 93396 | Soil   | 02-AUG-2004 | 21:31 | 1.0 | 0.8278 |     |    | 1   |      |     |
| 020 | 215_020  | MSS    | 173688-001 | 93318 | Soil   | 02-AUG-2004 | 21:59 | 1.0 | 0.8381 | 3   |    | 1   | spk  |     |
| 021 | 215_021  | SAMPLE | 173688-002 | 93318 | Soil   | 02-AUG-2004 | 22:27 | 1.0 | 0.8232 |     |    | 1   | spk  |     |
| 022 | 215_022  | SAMPLE | 173688-003 | 93318 | Soil   | 02-AUG-2004 | 22:56 | 1.0 | 0.8314 | 1   |    | 1   | spk  |     |
| 023 | 215_023  | SAMPLE | 173688-004 | 93318 | Soil   | 02-AUG-2004 | 23:24 | 1.0 | 0.8237 | 2   |    | 1   | spk  |     |
| 024 | 215_024  | SAMPLE | 173688-005 | 93318 | Soil   | 02-AUG-2004 | 23:52 | 1.0 | 0.8364 | 1   |    | 1   | spk  |     |
| 026 | 215_026  | CCV    | pcb250_50  |       |        | 03-AUG-2004 | 00:49 | 1.0 | 1.0    |     |    | 1   | 1    |     |
| 027 | 215_027  | X      | ccv        |       |        | 03-AUG-2004 | 01:17 | 1.0 |        |     |    |     | 1    |     |
| 028 | 215_028  | X      | ccv        |       |        | 03-AUG-2004 | 01:46 | 1.0 |        |     |    |     | 3    |     |
| 029 | 215_029  | CCV    | ar1254     |       |        | 03-AUG-2004 | 02:14 | 1.0 | 1.0    |     |    | 1   | 3    |     |
| 031 | 215_031  | SAMPLE | 173688-006 | 93318 | Soil   | 03-AUG-2004 | 03:10 | 1.0 | 0.8398 |     |    | 1   | spk  |     |
| 032 | 215_032  | SAMPLE | 173688-007 | 93318 | Soil   | 03-AUG-2004 | 03:39 | 1.0 | 0.8273 | 2   |    | 1   | spk  |     |
| 033 | 215_033  | SAMPLE | 173688-008 | 93318 | Soil   | 03-AUG-2004 | 04:07 | 1.0 | 0.8245 |     |    | 1   | spk  |     |
| 034 | 215_034  | SAMPLE | 173688-009 | 93318 | Soil   | 03-AUG-2004 | 04:35 | 1.0 | 0.8398 | 1   |    | 1   | spk  |     |
| 035 | 215_035  | SAMPLE | 173688-010 | 93318 | Soil   | 03-AUG-2004 | 05:04 | 1.0 | 0.8437 |     |    | 1   | spk  |     |
| 036 | 215_036  | SAMPLE | 173688-011 | 93318 | Soil   | 03-AUG-2004 | 05:32 | 1.0 | 0.8243 |     |    | 1   | spk  |     |

Std's used: 1=04WS0962 2=04WS0963 3=04WS0546

Flags used: spk=5% spike rule



SEQUENCE SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Sequence: 254310347 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 02-AUG-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF   | PDF | IOC    | SPK | uL | Stds | Used             | >LR |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|--------|-----|----|------|------------------|-----|
| 037 | 215_037  | SAMPLE | 173688-012 | 93318 | Soil   | 03-AUG-2004 | 06:00 | 1.0 | 0.8289 |     | 1  | spk  |                  |     |
| 038 | 215_038  | SAMPLE | 173688-013 | 93318 | Soil   | 03-AUG-2004 | 06:29 | 1.0 | 0.8401 |     | 1  | spk  |                  |     |
| 039 | 215_039  | SAMPLE | 173688-014 | 93318 | Soil   | 03-AUG-2004 | 06:57 | 1.0 | 0.8415 | 1   | 1  | spk  |                  |     |
| 040 | 215_040  | SAMPLE | 173688-020 | 93318 | Soil   | 03-AUG-2004 | 07:25 | 1.0 | 0.8403 |     | 1  | spk  |                  |     |
| 042 | 215_042  | X      | CCV        |       |        | 03-AUG-2004 | 08:22 | 1.0 | 1.0    |     | 1  | 2    | 2:PCB126=757.162 |     |
| 043 | 215_043  | CCV    | pcb500_100 |       |        | 03-AUG-2004 | 08:50 | 1.0 | 1.0    |     | 1  | 2    |                  |     |
| 044 | 215_044  | CCV    | ar1254     |       |        | 03-AUG-2004 | 09:19 | 1.0 | 1.0    |     | 1  | 3    |                  |     |
| 045 | 215_045  | X      | CCV        |       |        | 03-AUG-2004 | 09:47 | 1.0 |        |     |    | 3    |                  |     |
| 047 | 215_047  | LCS    | QC259510   | 93318 | Soil   | 03-AUG-2004 | 10:43 | 1.0 |        |     |    |      |                  |     |
| 049 | 215_049  | SAMPLE | 173688-025 | 93318 | Soil   | 03-AUG-2004 | 11:40 | 1.0 |        |     |    |      |                  |     |
| 050 | 215_050  | SAMPLE | 173688-030 | 93318 | Soil   | 03-AUG-2004 | 12:08 | 1.0 |        |     |    |      |                  |     |
| 051 | 215_051  | SAMPLE | 173688-035 | 93318 | Soil   | 03-AUG-2004 | 12:37 | 1.0 |        |     |    |      |                  |     |
| 052 | 215_052  | SAMPLE | 173688-040 | 93346 | Soil   | 03-AUG-2004 | 13:05 | 1.0 |        |     |    |      |                  |     |
| 053 | 215_053  | SAMPLE | 173688-045 | 93346 | Soil   | 03-AUG-2004 | 13:33 | 1.0 |        |     |    |      |                  |     |
| 054 | 215_054  | SAMPLE | 173688-050 | 93346 | Soil   | 03-AUG-2004 | 14:02 | 1.0 |        |     |    |      |                  |     |
| 055 | 215_055  | SAMPLE | 173746-001 | 93346 | Soil   | 03-AUG-2004 | 14:30 | 1.0 |        |     |    |      |                  |     |
| 057 | 215_057  | X      | CCV        |       |        | 03-AUG-2004 | 15:27 | 1.0 |        |     |    | 1    |                  |     |
| 058 | 215_058  | CCV    | pcb250_50  |       |        | 03-AUG-2004 | 15:55 | 1.0 | 1.0    | 2   | 1  | 1    |                  |     |

Stds used: 1=04WS0962 2=04WS0963 3=04WS0546  
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Sequence: 204311979 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 03-AUG-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type   | Samplenum  | Batch | Matrix | Analyzed          | IDF | PDF     | IOC | SPK | uL | Stdts | Used | >LR |
|-----|----------|--------|------------|-------|--------|-------------------|-----|---------|-----|-----|----|-------|------|-----|
| 005 | 216_005  | X      | pcb250_50  |       |        | 03-AUG-2004 15:39 | 1.0 |         |     |     |    | 1     |      |     |
| 006 | 216_006  | X      | ccv        |       |        | 03-AUG-2004 16:13 | 1.0 |         |     |     |    | 1     |      |     |
| 007 | 216_007  | CCV    | ccv        |       |        | 03-AUG-2004 17:28 | 1.0 |         |     |     | 1  |       |      |     |
| 009 | 216_009  | CCV    | ar1254     |       |        | 03-AUG-2004 18:34 | 1.0 | 1.0     |     |     | 1  |       |      |     |
| 010 | 216_010  | X      | ccv        |       |        | 03-AUG-2004 19:07 | 1.0 | 1.0     |     |     | 1  |       |      |     |
| 011 | 216_011  | CCV    | ar1232     |       |        | 03-AUG-2004 19:40 | 1.0 |         |     |     | 1  |       |      |     |
| 012 | 216_012  | X      | ccv        |       |        | 03-AUG-2004 20:13 | 1.0 |         |     |     | 1  |       |      |     |
| 014 | 216_014  | BLANK  | QC259712   | 93370 | Water  | 03-AUG-2004 21:20 | 1.0 | 0.025   |     |     | 1  |       |      |     |
| 015 | 216_015  | BS     | QC259713   | 93370 | Water  | 03-AUG-2004 21:53 | 1.0 | 0.025   |     |     | 1  |       |      |     |
| 016 | 216_016  | BSD    | QC259714   | 93370 | Water  | 03-AUG-2004 22:26 | 1.0 | 0.025   |     |     | 1  |       |      |     |
| 017 | 216_017  | MS     | QC259816   | 93396 | Soil   | 03-AUG-2004 22:59 | 1.0 | 0.8273  |     |     | 1  |       |      |     |
| 018 | 216_018  | MSD    | QC259817   | 93396 | Soil   | 03-AUG-2004 23:33 | 1.0 | 0.8325  |     | 1   |    |       |      |     |
| 019 | 216_019  | MS     | QC259620   | 93346 | Soil   | 04-AUG-2004 00:06 | 1.0 | 0.8344  |     |     | 1  |       |      |     |
| 020 | 216_020  | MSD    | QC259621   | 93346 | Soil   | 04-AUG-2004 00:39 | 1.0 | 0.8412  |     |     | 1  |       |      |     |
| 021 | 216_021  | SAMPLE | 173688-013 | 93318 | Soil   | 04-AUG-2004 01:12 | 1.0 | 0.8401  |     |     | 1  | snk   |      |     |
| 022 | 216_022  | SAMPLE | 173701-001 | 93370 | Water  | 04-AUG-2004 01:45 | 1.0 | 0.02404 |     |     | 1  |       |      |     |
| 023 | 216_023  | SAMPLE | 173703-001 | 93370 | Water  | 04-AUG-2004 02:19 | 1.0 | 0.02404 |     |     | 1  |       |      |     |
| 025 | 216_025  | CCV    | pcb500_100 |       |        | 04-AUG-2004 03:25 | 1.0 | 1.0     |     |     | 1  |       |      |     |
| 026 | 216_026  | X      | ccv        |       |        | 04-AUG-2004 03:58 | 1.0 |         |     |     | 1  |       |      |     |
| 027 | 216_027  | CCV    | ar1254     |       |        | 04-AUG-2004 04:31 | 1.0 | 1.0     |     |     | 1  |       |      |     |
| 028 | 216_028  | X      | ccv        |       |        | 04-AUG-2004 05:04 | 1.0 |         |     |     | 1  |       |      |     |
| 029 | 216_029  | CCV    | ar1232     |       |        | 04-AUG-2004 05:38 | 1.0 | 1.0     |     |     | 1  |       |      |     |
| 030 | 216_030  | X      | ccv        |       |        | 04-AUG-2004 06:11 | 1.0 |         |     |     | 1  |       |      |     |
| 032 | 216_032  | SAMPLE | 173704-001 | 93370 | Water  | 04-AUG-2004 07:17 | 1.0 | 0.02427 |     |     | 1  |       |      |     |
| 033 | 216_033  | SAMPLE | 173724-001 | 93370 | Water  | 04-AUG-2004 07:50 | 1.0 | 0.02451 |     | 4   | 1  |       |      |     |
| 034 | 216_034  | SAMPLE | 173735-012 | 93370 | Water  | 04-AUG-2004 08:23 | 1.0 | 0.02381 |     |     | 1  |       |      |     |
| 035 | 216_035  | SAMPLE | 173735-013 | 93370 | Water  | 04-AUG-2004 08:57 | 1.0 | 0.02381 |     |     | 1  |       |      |     |
| 036 | 216_036  | SAMPLE | 173748-006 | 93370 | Water  | 04-AUG-2004 09:30 | 1.0 | 0.02381 |     |     | 1  |       |      |     |
| 037 | 216_037  | SAMPLE | 173752-001 | 93370 | Water  | 04-AUG-2004 10:03 | 1.0 | 0.02381 |     |     | 1  |       |      |     |
| 038 | 216_038  | SAMPLE | 173752-002 | 93370 | Water  | 04-AUG-2004 10:36 | 1.0 | 0.02451 |     |     | 1  |       |      |     |

Stdts used: 1=04WS0962 2=04WS0546 3=04WS1445 4=04WS0963  
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Sequence: 204311979 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 03-AUG-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type   | Samplenum  | Batch | Matrix | Analyzed    | IDF   | PDF | IOC     | SPK | uL | Stds | Used | >LR |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|---------|-----|----|------|------|-----|
| 039 | 216_039  | MS     | QC259816   | 93396 | Soil   | 04-AUG-2004 | 11:33 | 1.0 | 0.8273  |     | 1  |      |      |     |
| 040 | 216_040  | MSD    | QC259817   | 93396 | Soil   | 04-AUG-2004 | 12:06 | 1.0 | 0.8325  |     | 1  |      |      |     |
| 041 | 216_041  | SAMPLE | 173724-002 | 93396 | Soil   | 04-AUG-2004 | 12:39 | 1.0 | 0.8331  |     | 1  |      |      |     |
| 043 | 216_043  | CCV    | pcb250_50  |       |        | 04-AUG-2004 | 13:46 | 1.0 | 1.0     |     | 1  |      |      |     |
| 048 | 216_048  | SAMPLE | 173724-001 | 93370 | Water  | 04-AUG-2004 | 16:37 | 1.0 | 0.02451 | 3   | 1  |      |      |     |
| 049 | 216_049  | LCS    | QC259619   | 93346 | Soil   | 04-AUG-2004 | 18:35 | 1.0 | 0.8472  |     | 1  |      |      |     |
| 050 | 216_050  | SAMPLE | 173728-001 | 93346 | Soil   | 04-AUG-2004 | 19:09 | 1.0 | 0.835   | 1   | 1  |      |      |     |
| 051 | 216_051  | BLANK  | QC260156   | 93482 | Soil   | 04-AUG-2004 | 19:42 | 1.0 | 0.8378  | 2   | 1  |      |      |     |
| 052 | 216_052  | LCS    | QC260157   | 93482 | Soil   | 04-AUG-2004 | 20:15 | 1.0 | 0.8297  | 2   | 1  |      |      |     |
| 053 | 216_053  | MS     | QC260158   | 93482 | Soil   | 04-AUG-2004 | 20:48 | 1.0 | 0.8475  | 2   | 1  |      |      |     |
| 054 | 216_054  | MSD    | QC260159   | 93482 | Soil   | 04-AUG-2004 | 21:21 | 1.0 | 0.821   | 2   | 1  |      |      |     |
| 055 | 216_055  | MSS    | 173824-001 | 93482 | Soil   | 04-AUG-2004 | 21:54 | 1.0 | 0.8317  | 2   | 1  |      |      |     |
| 056 | 216_056  | SAMPLE | 173825-001 | 93482 | Soil   | 04-AUG-2004 | 22:27 | 1.0 | 0.842   | 2   | 1  |      |      |     |
| 058 | 216_058  | CCV    | pcb500_100 |       |        | 04-AUG-2004 | 23:34 | 1.0 | 1.0     |     | 1  |      |      |     |
| 059 | 216_059  | X      | CCV        |       |        | 05-AUG-2004 | 00:07 | 1.0 |         |     | 1  |      |      |     |
| 063 | 216_063  | BLANK  | QC259936   | 93426 | Soil   | 05-AUG-2004 | 02:20 | 1.0 | 0.8289  | 2   | 1  |      |      |     |
| 064 | 216_064  | LCS    | QC259937   | 93426 | Soil   | 05-AUG-2004 | 02:53 | 1.0 | 0.8207  | 1   | 1  |      |      |     |
| 065 | 216_065  | MS     | QC259938   | 93426 | Soil   | 05-AUG-2004 | 03:26 | 1.0 | 0.8403  | 2   | 1  |      |      |     |
| 066 | 216_066  | MSD    | QC259939   | 93426 | Soil   | 05-AUG-2004 | 03:59 | 1.0 | 0.8437  | 2   | 1  |      |      |     |
| 067 | 216_067  | SAMPLE | 173773-001 | 93426 | Soil   | 05-AUG-2004 | 04:33 | 1.0 | 0.8443  | 2   | 1  |      |      |     |
| 068 | 216_068  | MSS    | 173773-002 | 93426 | Soil   | 05-AUG-2004 | 05:06 | 1.0 | 0.8314  | 2   | 1  |      |      |     |
| 069 | 216_069  | SAMPLE | 173773-003 | 93426 | Soil   | 05-AUG-2004 | 05:39 | 1.0 | 0.8463  | 2   | 1  |      |      |     |
| 070 | 216_070  | SAMPLE | 173773-004 | 93426 | Soil   | 05-AUG-2004 | 06:12 | 1.0 | 0.8466  | 2   | 1  |      |      |     |
| 071 | 216_071  | SAMPLE | 173773-005 | 93426 | Soil   | 05-AUG-2004 | 06:46 | 1.0 | 0.8426  | 2   | 1  |      |      |     |
| 073 | 216_073  | CCV    | pcb250_50  |       |        | 05-AUG-2004 | 07:52 | 1.0 | 1.0     |     | 1  |      |      |     |
| 074 | 216_074  | X      | CCV        |       |        | 05-AUG-2004 | 08:25 | 1.0 |         |     | 1  |      |      |     |
| 075 | 216_075  | CCV    | ar1254     |       |        | 05-AUG-2004 | 08:58 | 1.0 |         |     | 1  |      |      |     |
| 076 | 216_076  | X      | CCV        |       |        | 05-AUG-2004 | 09:32 | 1.0 |         |     | 2  |      |      |     |
| 080 | 216_080  | SAMPLE | 173762-001 | 93426 | Soil   | 05-AUG-2004 | 11:45 | 1.0 | 0.8384  | 2   | 1  |      |      |     |
| 081 | 216_081  | SAMPLE | 173762-002 | 93426 | Soil   | 05-AUG-2004 | 12:18 | 1.0 | 0.8463  |     | 1  |      |      |     |

Stds used: 1=04WS0962 2=04WS0546 3=04WS1445 4=04WS0963

Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173746 PCB Soil  
Curtis & Tompkins Laboratories

Sequence: 204311979 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 03-AUG-2004  
Analytical Method: EPA 8082 SOP Version: PCB\_rv3

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF       | PDF    | IOC | SPK | uL | Std | Used | >LR |
|-----|----------|--------|------------|-------|--------|-------------|-----------|--------|-----|-----|----|-----|------|-----|
| 082 | 216_082  | SAMPLE | 173762-003 | 93426 | Soil   | 05-AUG-2004 | 12:51 1.0 | 0.8333 | 2   | 1   |    |     |      |     |
| 083 | 216_083  | LCS    | QC259510   | 93318 | Soil   | 05-AUG-2004 | 14:00 1.0 | 0.8389 | 6   | 1   |    | spk |      |     |
| 084 | 216_084  | SAMPLE | 173718-017 | 93426 | Soil   | 05-AUG-2004 | 14:33 5.0 |        |     |     |    |     |      |     |
| 085 | 216_085  | SAMPLE | 173718-020 | 93426 | Soil   | 05-AUG-2004 | 15:06 5.0 |        |     |     |    |     |      |     |
| 087 | 216_087  | CCV    | pcb500_100 |       |        | 05-AUG-2004 | 16:13 1.0 | 1.0    |     | 1   |    | 4   |      |     |
| 088 | 216_088  | X      | ccv        |       |        | 05-AUG-2004 | 16:46 1.0 |        |     |     |    | 4   |      |     |
| 089 | 216_089  | CCV    | ar1254     |       |        | 05-AUG-2004 | 17:19 1.0 |        |     |     |    | 2   |      |     |

Std's used: 1=04WS0962 2=04WS0546 3=04WS1445 4=04WS0963  
Flags used: spk=5% spike rule

Curtis & Tompkins Laboratories Sample Preparation Summary 02-AUG-2004 14:18

Batch Number : 93396  
 Date Extracted: 02-AUG-2004  
 Extracted by : Brook N. Buswell  
 Prep Method : 3550

Analysis : PCB  
 Bgroup : N/A  
 Units : g  
 Clean-up :

Spike #1 ID : 04WS0993B  
 Spike #2 ID : 04WS1320A  
 Spike #3 ID :  
 SOP Version :

| Sample     | Type | Client                         | Matrix | Init Units | Final Prep | Clean pH | Sp 1 | Sp 2 | Sp 3 | Analyses | Clean  | Comments |
|------------|------|--------------------------------|--------|------------|------------|----------|------|------|------|----------|--------|----------|
|            |      |                                |        | W/V        | D.F.       | D.F.     | Vol  | Vol  | Vol  |          | Method |          |
| 173718-001 |      | Basland, Bouck & Lee, Inc.     | Soil   | 30.07 g    | 25         | 0.831393 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-002 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.67 g    | 25         | 0.842602 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-003 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.78 g    | 25         | 0.839490 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-004 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.84 g    | 25         | 0.837802 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-005 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.82 g    | 25         | 0.838364 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-006 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.56 g    | 25         | 0.845737 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-007 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.75 g    | 25         | 0.840336 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-008 |      | Basland, Bouck & Lee, Inc.     | Soil   | 30.22 g    | 25         | 0.827267 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-009 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.88 g    | 25         | 0.836680 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-010 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.79 g    | 25         | 0.839208 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-021 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.74 g    | 25         | 0.840619 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-022 |      | Basland, Bouck & Lee, Inc.     | Soil   | 30.44 g    | 25         | 0.821288 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-023 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.7 g     | 25         | 0.841751 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-024 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.75 g    | 25         | 0.840336 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-025 |      | Basland, Bouck & Lee, Inc.     | Soil   | 30.01 g    | 25         | 0.833056 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173718-026 |      | Basland, Bouck & Lee, Inc.     | Soil   | 29.98 g    | 25         | 0.833899 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173724-002 |      | Innovative Technical Solutions | Soil   | 30.01 g    | 25         | 0.833056 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173746-005 |      | Geologica                      | Soil   | 30.29 g    | 25         | 0.825355 | 1    | .05  | 0    | PCB      | 3665A  |          |
| 173746-005 |      | Geologica                      | Soil   | 30.29 g    | 25         | 0.833333 | 1    | .05  | 0    | PCB      | 3665A  | mss      |
| 173746-015 | MB   | Geologica                      | Soil   | 29.84 g    | 25         | 0.837802 | 1    | .05  | 0    | PCB      | 3665A  |          |
| QC259814   | LCS  |                                | Soil   | 29.58 g    | 25         | 0.845166 | 1    | .05  | 0    | PCB      | 3665A  |          |
| QC259815   | MS   |                                | Soil   | 30.23 g    | 25         | 0.826993 | 1    | .05  | .05  | PCB      | 3665A  |          |
| QC259816   | MSD  |                                | Soil   | 30.22 g    | 25         | 0.827267 | 1    | .05  | .05  | PCB      | 3665A  |          |
| QC259817   |      |                                | Soil   | 30.03 g    | 25         | 0.832501 | 1    | .05  | .05  | PCB      | 3665A  |          |

of 173746-010  
 of 173746-010

Prep Chemist: [Signature] Reviewed By: [Signature] Date: 8/2/04

Relinquished By: [Signature] Received By: [Signature] Date: 8/3/04

LIMS Batch No: 93396  
 LIMS Analysis: PCB  
 Extracted by: BP  
 Date Extracted: 8/2/04

☒ EPA 3550b Sonication  
☐ EPA 3540c Soxhlet  
☐ EPA 3545 PFE (ASE Method#       )  
☐ Other       

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| Sample ID  | Sample Wt (g) | Final Vol (mL) | Comments |
|------------|---------------|----------------|----------|
| 173718-001 | 30.07         | 25.0           |          |
| 173718-002 | 29.67         |                |          |
| -003       | 29.78         |                |          |
| -004       | 29.84         |                |          |
| -005       | 29.82         |                |          |
| -006       | 29.52         |                |          |
| -007       | 29.75         |                |          |
| -008       | 30.22         |                |          |
| -009       | 29.88         |                |          |
| -010       | 29.79         |                |          |
| -021       | 29.74         |                |          |
| -022       | 30.44         |                |          |
| -023       | 29.70         |                |          |
| -024       | 29.75         |                |          |
| -025       | 30.01         |                |          |
| -026       | 29.98         |                |          |
| 173724-002 | 30.01         |                |          |
| 173746-005 | 30.29         |                |          |
| -010       | 30.30         |                | MS       |
| -015       | 29.84         |                |          |
| MB Q259814 | 29.58         |                |          |
| LCS 15     | 30.23         |                |          |
| MS 16      | 30.22         |                |          |
| MSD 17     | 30.03         |                |          |

Mfg &amp; Lot # / LIMS # / Time Initials / Date

|                    |          |
|--------------------|----------|
| EM 43310410        | BB8/2/04 |
| JBA17H50/EM4404410 |          |
| 04W30993B          |          |
| 04W51320A          |          |
| ✓                  |          |
| NA                 |          |
| NA                 |          |
| NA                 |          |
| ✓ JBA17H50         |          |
| CK856 B&T          |          |
| X26046 JIB         |          |
| ✓                  |          |

1:1 CH<sub>2</sub>Cl<sub>2</sub> (lot# EM44161):Acetone (lot# EM44081) was added to all  
☒ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted  
 ASE Cellulose Filters used: NA  
 PFE (ASE) / soxhlets on at: NA  
 PFE (ASE) / soxhlets off at: NA  
 Extracts filtered through baked, CH<sub>2</sub>Cl<sub>2</sub> rinsed granular Na<sub>2</sub>SO<sub>4</sub>  
 Concentrated to volumes noted above after exchange to Hexane Lot#  
 EPA 3665A Clean-up: vortexed w/ 10mL H<sub>2</sub>SO<sub>4</sub> Lot#  
 Centrifuged for 1 min; 10mL transferred to labelled vial

BP 8/2/04  
 Extraction Chemist / Date

Continued from page 1  
 Continued on page 2

Jennifer L. O'Neil 8/2/04  
 Reviewed by / Date

| <u>SAMPLE ID</u> | <u>WEIGHT</u> | <u>ANALYSIS</u> | <u>COMMENTS</u> |
|------------------|---------------|-----------------|-----------------|
| 173724-002       | 30.25         | 8081            | Comp (A-H)      |
| ↓ ↓              | 30.01         | PCB             | ↓               |
| 173727-001A      | 29.98         | 8081            |                 |
| ↓ ↓              | 30.31         | PCB             |                 |
| 173728-001A      | 30.08         | 8081            |                 |
| ↓ ↓              | 29.94         | PCB             |                 |

RSS 7/30/04

Continued on Page

Read and Understood By

[Signature]  
Signed

7/30/04<sup>92</sup>  
Date

Signed

Date

| SAMPLE ID  | WEIGHT | ANALYSIS | COMMENT        |
|------------|--------|----------|----------------|
| 173746-005 | 49.90  | TEH      | COMP (1-4)A    |
| ↓ 010      | 50.30  | ↓        | ↓ (6-9)A       |
| ↓ 015      | 50.18  | ↓        | ↓ (11-14)A     |
| 173746-005 | 30.30  | 8081     | COMP (1-4)A    |
| ↓ 010      | 29.88  | ↓        | ↓ (6-9)A       |
| ↓ 015      | 29.87  | ↓        | ↓ (11-14)A     |
| MB         | 30.21  | ↓        | EM43310410     |
| LCS        | 30.02  | ↓        | ↓              |
| MS         | 29.98  | ↓        | 173746-007 RT3 |
| MSD        | 29.94  | ↓        | 7/30           |
| 173746-005 | 30.29  | PCB      | COMP (1-4)A    |
| ↓ 010      | 30.00  | ↓        | ↓ (6-9)A       |
| ↓ 015      | 29.84  | ↓        | ↓ (11-14)A     |
| MB         | 29.58  | ↓        | EM43310410     |
| LCS        | 30.23  | ↓        | ↓              |
| MS         | 30.22  | ↓        | 173746-010-    |
| MSD        | 30.03  | ↓        | ↓              |

RT3 7/30/04

Continued on Page

Read and Understood By

*[Signature]*

7/30/04

Signed

Date





## **METALS Results & QC Summary**

# Lead

|           |           |           |                         |
|-----------|-----------|-----------|-------------------------|
| Lab #:    | 173746    | Location: | GA-9 Stockpile Sampling |
| Client:   | Geologica | Prep:     | EPA 3050                |
| Project#: | STANDARD  | Analysis: | EPA 6010B               |
| Analyte:  | Lead      | Sampled:  | 07/30/04                |
| Matrix:   | Soil      | Received: | 07/30/04                |
| Units:    | mg/Kg     | Prepared: | 08/02/04                |
| Diln Fac: | 1.000     | Analyzed: | 08/02/04                |
| Batch#:   | 93374     |           |                         |

| Field ID             | Type   | Lab ID     | Result | RL   | Basis       | Moisture |
|----------------------|--------|------------|--------|------|-------------|----------|
| GA9SSCOMP501-504     | SAMPLE | 173746-005 | 0.8    | 0.14 | dry         | 2%       |
| DUP073004COMP501-504 | SAMPLE | 173746-010 | 0.6    | 0.17 | dry         | 2%       |
| GA9SSCOMP505-508     | SAMPLE | 173746-015 | 0.6    | 0.15 | dry         | 3%       |
|                      | BLANK  | QC259725   | ND     | 0.15 | as received |          |

ND= Not Detected  
 RL= Reporting Limit  
 Page 1 of 1

## Batch QC Report

| Lead      |             |           |                         |
|-----------|-------------|-----------|-------------------------|
| Lab #:    | 173746      | Location: | GA-9 Stockpile Sampling |
| Client:   | Geologica   | Prep:     | EPA 3050                |
| Project#: | STANDARD    | Analysis: | EPA 6010B               |
| Analyte:  | Lead        | Diln Fac: | 1.000                   |
| Matrix:   | Soil        | Batch#:   | 93374                   |
| Units:    | mg/Kg       | Prepared: | 08/02/04                |
| Basis:    | as received | Analyzed: | 08/02/04                |

| Type | Lab ID   | Spiked | Result | %REC | Limits | RPD | Lim |
|------|----------|--------|--------|------|--------|-----|-----|
| BS   | QC259726 | 100.0  | 102.5  | 103  | 78-120 |     |     |
| BSD  | QC259727 | 100.0  | 101.0  | 101  | 78-120 | 1   | 20  |

# Batch QC Report

| Lead        |            |           |                         |
|-------------|------------|-----------|-------------------------|
| Lab #:      | 173746     | Location: | GA-9 Stockpile Sampling |
| Client:     | Geologica  | Prep:     | EPA 3050                |
| Project#:   | STANDARD   | Analysis: | EPA 6010B               |
| Analyte:    | Lead       | Diln Fac: | 1.000                   |
| Field ID:   | ZZZZZZZZZZ | Batch#:   | 93374                   |
| MSS Lab ID: | 173729-004 | Sampled:  | 07/29/04                |
| Matrix:     | Soil       | Received: | 07/29/04                |
| Units:      | mg/Kg      | Prepared: | 08/02/04                |
| Basis:      | dry        | Analyzed: | 08/02/04                |

| Type | Lab ID   | MSS Result | Spiked | Result | %REC | Limits | Moisture | RPD | Lim |
|------|----------|------------|--------|--------|------|--------|----------|-----|-----|
| MS   | QC259728 | 178.3      | 100.5  | 259.3  | 81   | 42-125 | 7%       |     |     |
| MSD  | QC259729 |            | 107.5  | 278.0  | 93   | 42-125 | 7%       | 4   | 30  |

REPORTING SUMMARY FOR 173746 METALS Soil  
Curtis & Tompkins Laboratories

| Lab ID     | Inst ID | Analyzed       | IDF | P<br>B |  |
|------------|---------|----------------|-----|--------|--|
| 173746-005 | MET07   | 08/02/04 09:47 | 1.0 | +      |  |
| 173746-010 | MET07   | 08/02/04 10:00 | 1.0 | +      |  |
| 173746-015 | MET07   | 08/02/04 10:04 | 1.0 | +      |  |
| QC259725   | MET07   | 08/02/04 07:19 | 1.0 | +      |  |
| QC259726   | MET07   | 08/02/04 07:23 | 1.0 | +      |  |
| QC259727   | MET07   | 08/02/04 07:27 | 1.0 | +      |  |
| QC259728   | MET07   | 08/02/04 08:12 | 1.0 | +      |  |
| QC259729   | MET07   | 08/02/04 08:16 | 1.0 | +      |  |
| QC259730   | MET07   | 08/02/04 07:40 | 5.0 | +      |  |
| QC259730   | MET07   | 08/02/04 07:49 | 5.0 |        |  |

SERIAL DILUTION USER REPORT  
Curtis & Tompkins Laboratories  
EPA 6010B

|                         |                         |
|-------------------------|-------------------------|
| Instid : MET07          | Instid : MET07          |
| Seqnum : 74310009010    | Seqnum : 74310009011    |
| Filename : tr243948     | Filename : tr243949     |
| IDF : 1.0               | IDF : 5.0               |
| PDF : 51.02             | PDF : 51.02             |
| Run type : MSS          | Run type : SER          |
| Samplenum: 173729-004   | Samplenum: QC259730     |
| Matrix : Soil           | Matrix : Soil           |
| Batchnum : 93374        | Batchnum : 93374        |
| Inj : 02-AUG-2004 07:32 | Inj : 02-AUG-2004 07:40 |
| Units : mg/Kg           |                         |

| Analyte    | MSS                               | RL    | SER  | RL    | %D | MAX | %D | Flags |
|------------|-----------------------------------|-------|------|-------|----|-----|----|-------|
| Aluminum   | *** usable MSS data not found *** |       |      |       |    |     |    |       |
| Antimony   | ND                                | 3.06  | ND   | 15.3  | -- | 10  |    | u     |
| Arsenic    | 9.80                              | 0.255 | 9.52 | 1.28  | 3  | 10  |    | u     |
| Barium     | 143                               | 0.510 | 141  | 2.55  | 1  | 10  |    | u     |
| Beryllium  | 0.432                             | 0.102 | ND   | 0.510 | -- | 10  |    | u     |
| Cadmium    | ND                                | 0.255 | ND   | 1.28  | -- | 10  |    | u     |
| Calcium    | *** usable MSS data not found *** |       |      |       |    |     |    |       |
| Chromium   | 25.2                              | 0.510 | 26.3 | 2.55  | 4  | 10  |    | u     |
| Cobalt     | 7.81                              | 1.02  | 8.24 | 5.10  | 6  | 10  |    | u     |
| Copper     | 69.9                              | 0.510 | 69.6 | 2.55  | 0  | 10  |    | u     |
| Iron       | *** usable MSS data not found *** |       |      |       |    |     |    |       |
| Lead       | 166                               | 0.153 | 174  | 0.765 | 5  | 10  |    | u     |
| Magnesium  | 3620                              | 25.5  | 3740 | 128   | 3  | 10  |    |       |
| Manganese  | 318                               | 0.510 | 319  | 2.55  | 0  | 10  |    |       |
| Molybdenum | ND                                | 1.02  | ND   | 5.10  | -- | 10  |    | u     |
| Nickel     | 26.7                              | 1.02  | 28.1 | 5.10  | 5  | 10  |    | u     |
| Selenium   | 0.607                             | 0.255 | 1.37 | 1.28  | -- | 10  |    | r     |
| Silver     | ND                                | 0.255 | ND   | 1.28  | -- | 10  |    | u     |
| Thallium   | ND                                | 0.255 | ND   | 1.28  | -- | 10  |    | u     |
| Vanadium   | 39.3                              | 0.510 | 40.3 | 2.55  | 3  | 10  |    | u     |
| Zinc       | 134                               | 1.02  | 139  | 5.10  | 4  | 10  |    | u     |
| Titanium   | *** usable MSS data not found *** |       |      |       |    |     |    |       |

SERIAL DILUTION USER REPORT  
Curtis & Tompkins Laboratories  
EPA 6010B

|                         |                         |
|-------------------------|-------------------------|
| Instid : MET07          | Instid : MET07          |
| Seqnum : 74310009010    | Seqnum : 74310009013    |
| Filename : tr243948     | Filename : tr243951     |
| IDF : 1.0               | IDF : 5.0               |
| PDF : 51.02             | PDF : 51.02             |
| Run type : MSS          | Run type : SER          |
| Samplenum: 173729-004   | Samplenum: QC259730     |
| Matrix : Soil           | Matrix : Soil           |
| Batchnum : 93374        | Batchnum : 93374        |
| Inj : 02-AUG-2004 07:32 | Inj : 02-AUG-2004 07:49 |
| Units : mg/Kg           |                         |

| Analyte    | MSS                               | RL    | SER  | L     | %D | MAX | %D | Flags |
|------------|-----------------------------------|-------|------|-------|----|-----|----|-------|
| Aluminum   | *** usable MSS data not found *** |       |      |       |    |     |    |       |
| Antimony   | ND                                | 3.06  | ND   | 5.3   | -- | 10  |    |       |
| Arsenic    | 9.80                              | 0.255 | 9.85 | 1.28  | 1  | 10  |    |       |
| Barium     | 143                               | 0.510 | 140  | 1.55  | 2  | 10  |    |       |
| Beryllium  | 0.432                             | 0.102 | ND   | 0.510 | -- | 10  |    |       |
| Cadmium    | ND                                | 0.255 | ND   | 1.28  | -- | 10  |    |       |
| Calcium    | *** usable MSS data not found *** |       |      |       |    |     |    |       |
| Chromium   | 25.2                              | 0.510 | 26.0 | 2.55  | 3  | 10  |    |       |
| Cobalt     | 7.81                              | 1.02  | 8.14 | 5.10  | 4  | 10  |    |       |
| Copper     | 69.9                              | 0.510 | 69.4 | 2.55  | 1  | 10  |    |       |
| Iron       | *** usable MSS data not found *** |       |      |       |    |     |    |       |
| Lead       | 166                               | 0.153 | 174  | 0.765 | 5  | 10  |    |       |
| Magnesium  | 3620                              | 25.5  | 3750 | 128   | 4  | 10  |    |       |
| Manganese  | 318                               | 0.510 | 321  | 2.55  | 1  | 10  |    |       |
| Molybdenum | ND                                | 1.02  | ND   | 5.10  | -- | 10  |    |       |
| Nickel     | 26.7                              | 1.02  | 28.1 | 5.10  | 5  | 10  |    |       |
| Selenium   | 0.607                             | 0.255 | ND   | 1.28  | -- | 10  |    | u     |
| Silver     | ND                                | 0.255 | ND   | 1.28  | -- | 10  |    |       |
| Sodium     | ND                                | 0.255 | ND   | 1.28  | -- | 10  |    |       |
| Strontium  | 39.3                              | 0.510 | 40.1 | 2.55  | 2  | 10  |    |       |
| Zinc       | 134                               | 1.02  | 139  | 5.10  | 4  | 10  |    |       |
| Titanium   | *** usable MSS data not found *** |       |      |       |    |     |    |       |



SEQUENCE SUMMARY  
Curtis & Tompkins Laboratories

Sequence: 7431009 Instrument: MET07  
Analytical Method: EPA 6010B

TJA Trace ICP  
SOP Version: 6010B\_rv7

Begun: 02-AUG-2004

| #   | Filename | Type   | Samplenum | Batch | Matrix | Analyzed          | IDF | PDF   | IOC | SPK | uL | Stds Used | >LR         |
|-----|----------|--------|-----------|-------|--------|-------------------|-----|-------|-----|-----|----|-----------|-------------|
| 001 | tr243939 | CS     |           |       |        | 02-AUG-2004 06:49 | 1.0 | 1.0   |     |     |    | 1         |             |
| 002 | tr243940 | ICV    |           |       |        | 02-AUG-2004 06:53 | 1.0 | 1.0   |     |     |    | 2         |             |
| 003 | tr243941 | ICB    |           |       |        | 02-AUG-2004 06:57 | 1.0 | 1.0   |     |     |    |           |             |
| 004 | tr243942 | CRI    |           |       |        | 02-AUG-2004 07:01 | 1.0 | 1.0   |     |     |    | 3         |             |
| 005 | tr243943 | ICSA   |           |       |        | 02-AUG-2004 07:11 | 1.0 | 1.0   |     |     |    | 4         | 4:MG=531700 |
| 006 | tr243944 | ICSAB  |           |       |        | 02-AUG-2004 07:14 | 1.0 | 1.0   |     |     |    | 5         | 5:MG=548100 |
| 007 | tr243945 | BLANK  |           |       |        | 02-AUG-2004 07:19 | 1.0 | 50.0  |     |     |    | 1         |             |
| 008 | tr243946 | BS     |           |       |        | 02-AUG-2004 07:23 | 1.0 | 50.0  |     |     |    | 1         |             |
| 009 | tr243947 | BSD    |           |       |        | 02-AUG-2004 07:27 | 1.0 | 50.0  |     |     |    | 1         |             |
| 010 | tr243948 | MSS    |           |       |        | 02-AUG-2004 07:32 | 1.0 | 51.02 |     |     |    | 4         | 3:FE=399300 |
| 011 | tr243949 | SER    |           |       |        | 02-AUG-2004 07:40 | 5.0 | 51.02 |     |     |    |           |             |
| 012 | tr243950 | MSS    |           |       |        | 02-AUG-2004 07:44 | 1.0 | 51.02 |     |     |    | 4         | 3:FE=397600 |
| 013 | tr243951 | SER    |           |       |        | 02-AUG-2004 07:49 | 5.0 | 51.02 |     |     |    |           |             |
| 014 | tr243952 | CCV    |           |       |        | 02-AUG-2004 08:02 | 1.0 | 1.0   |     |     |    | 6         |             |
| 015 | tr243953 | CCB    |           |       |        | 02-AUG-2004 08:09 | 1.0 | 1.0   |     |     |    |           |             |
| 016 | tr243954 | MS     |           |       |        | 02-AUG-2004 08:12 | 1.0 | 46.73 |     |     |    |           | 4:FE=494200 |
| 017 | tr243955 | MSD    |           |       |        | 02-AUG-2004 08:16 | 1.0 | 50.0  |     |     |    |           | 4:FE=411500 |
| 018 | tr243956 | SAMPLE |           |       |        | 02-AUG-2004 08:22 | 1.0 | 43.48 |     |     |    |           | 5:FE=414900 |
| 019 | tr243957 | SAMPLE |           |       |        | 02-AUG-2004 08:26 | 1.0 | 50.0  |     |     |    |           | 4:FE=330400 |
| 020 | tr243958 | SAMPLE |           |       |        | 02-AUG-2004 08:30 | 1.0 | 39.68 |     |     |    | 1         | 3:FE=420100 |
| 021 | tr243959 | SAMPLE |           |       |        | 02-AUG-2004 08:34 | 1.0 | 43.48 |     |     |    |           | 3:FE=303100 |
| 022 | tr243960 | SAMPLE |           |       |        | 02-AUG-2004 08:38 | 1.0 | 48.54 |     |     |    |           | 3:FE=258200 |
| 023 | tr243961 | SAMPLE |           |       |        | 02-AUG-2004 08:43 | 5.0 | 50.0  |     |     |    |           |             |
| 024 | tr243962 | SAMPLE |           |       |        | 02-AUG-2004 08:47 | 1.0 | 50.0  |     |     |    |           | 2:FE=276900 |
| 025 | tr243963 | SAMPLE |           |       |        | 02-AUG-2004 08:51 | 1.0 | 47.62 |     |     |    |           | 2:FE=318400 |
| 026 | tr243964 | CCV    |           |       |        | 02-AUG-2004 08:57 | 1.0 | 1.0   |     |     |    | 7         |             |
| 027 | tr243965 | CCB    |           |       |        | 02-AUG-2004 09:00 | 1.0 | 1.0   |     |     |    |           |             |
| 028 | tr243966 | SAMPLE |           |       |        | 02-AUG-2004 09:08 | 1.0 | 51.02 |     |     |    |           | 2:FE=323900 |
| 029 | tr243967 | SAMPLE |           |       |        | 02-AUG-2004 09:12 | 1.0 | 40.32 |     |     |    |           | 2:AL=421100 |
| 030 | tr243968 | SAMPLE |           |       |        | 02-AUG-2004 09:16 | 1.0 | 48.08 |     |     |    |           | 2:AL=324800 |
| 031 | tr243969 | SAMPLE |           |       |        | 02-AUG-2004 09:20 | 1.0 | 33.11 |     |     |    | 1         | 8:CA=619400 |

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319 8=04SS171 9=04SS172 10=04WS1318

Analyst: ME'Wu Date: 8/6/04  
Page 1 of 3

# SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 74310009 Instrument: MET07 TJA Trace ICP Begun: 02-AUG-2004  
Analytical Method: EPA 6010B SOP Version: 6010B\_rv7

| #   | Filename | Type   | Sample Num | Batch | Matrix | Analyzed          | IDF  | PDF   | IOC | SPK | uL | Stds Used    | >LR |
|-----|----------|--------|------------|-------|--------|-------------------|------|-------|-----|-----|----|--------------|-----|
| 032 | tr243970 | SAMPLE | 173730-003 | 93374 | Soil   | 02-AUG-2004 09:26 | 5.0  | 33.11 | 1   |     |    | 5:CA=152800  |     |
| 033 | tr243971 | SAMPLE | 173730-003 | 93374 | Soil   | 02-AUG-2004 09:30 | 25.0 | 33.11 |     |     |    | 1:ZN=8860.00 |     |
| 034 | tr243972 | SAMPLE | 173730-004 | 93374 | Soil   | 02-AUG-2004 09:34 | 1.0  | 51.02 |     |     |    | 2:Al=370300  |     |
| 035 | tr243973 | SAMPLE | 173730-005 | 93374 | Soil   | 02-AUG-2004 09:38 | 1.0  | 43.10 |     |     |    | 3:FE=379600  |     |
| 036 | tr243974 | SAMPLE | 173741-001 | 93374 | Soil   | 02-AUG-2004 09:42 | 1.0  | 48.54 |     |     |    | 3:FE=274600  |     |
| 037 | tr243975 | SAMPLE | 173746-005 | 93374 | Soil   | 02-AUG-2004 09:47 | 1.0  | 46.30 |     |     |    | 1:FE=190600  |     |
| 038 | tr243976 | CCV    |            |       |        | 02-AUG-2004 09:52 | 1.0  | 1.0   | 2   |     |    |              | 6   |
| 039 | tr243977 | CCB    |            |       |        | 02-AUG-2004 09:56 | 1.0  | 1.0   |     |     |    |              |     |
| 040 | tr243978 | SAMPLE | 173746-010 | 93374 | Soil   | 02-AUG-2004 10:00 | 1.0  | 55.56 |     |     |    | 1:FE=166000  |     |
| 041 | tr243979 | SAMPLE | 173746-015 | 93374 | Soil   | 02-AUG-2004 10:04 | 1.0  | 49.02 |     |     |    | 1:FE=198300  |     |
| 042 | tr243980 | BLANK  | QC259731   | 93375 | Soil   | 02-AUG-2004 10:44 | 1.0  | 50.0  | 1   |     |    |              |     |
| 043 | tr243981 | BS     | QC259732   | 93375 | Soil   | 02-AUG-2004 10:48 | 1.0  | 50.0  | 3   |     |    |              |     |
| 044 | tr243982 | BSD    | QC259733   | 93375 | Soil   | 02-AUG-2004 10:52 | 1.0  | 50.0  | 3   |     |    |              |     |
| 045 | tr243983 | MSD    | QC259734   | 93375 | Soil   | 02-AUG-2004 11:00 | 1.0  | 45.45 | 5   |     |    | 5:MG=2288000 |     |
| 046 | tr243984 | MS     | QC259734   | 93375 | Soil   | 02-AUG-2004 11:04 | 1.0  | 45.45 |     |     |    | 5:MG=1735000 |     |
| 047 | tr243985 | MSD    | QC259735   | 93375 | Soil   | 02-AUG-2004 11:08 | 1.0  | 37.59 | 1   |     |    | 6:MG=2404000 |     |
| 048 | tr243986 | SER    | QC259736   | 93375 | Soil   | 02-AUG-2004 11:16 | 5.0  | 36.50 | 1   | 2   |    | 2:MG=452000  |     |
| 049 | tr243987 | SER    | QC259736   | 93375 | Soil   | 02-AUG-2004 11:20 | 5.0  | 36.50 | 2   | 2   |    | 2:MG=453300  |     |
| 050 | tr243988 | CCV    |            |       |        | 02-AUG-2004 11:27 | 1.0  | 1.0   |     |     |    |              | 7   |
| 051 | tr243989 | CCB    |            |       |        | 02-AUG-2004 11:32 | 1.0  | 1.0   |     |     |    |              |     |
| 052 | tr243990 | PDS    | QC259737   | 93375 | Soil   | 02-AUG-2004 11:36 | 1.0  | 36.50 |     |     |    | 5:MG=2263000 | 8 9 |
| 053 | tr243991 | SAMPLE | 173690-001 | 93375 | Soil   | 02-AUG-2004 11:41 | 1.0  | 40.65 |     |     |    | 5:MG=1925000 |     |
| 054 | tr243992 | SAMPLE | 173690-002 | 93375 | Soil   | 02-AUG-2004 11:45 | 1.0  | 42.02 |     |     |    | 5:MG=1535000 |     |
| 055 | tr243993 | SAMPLE | 173690-003 | 93375 | Soil   | 02-AUG-2004 11:49 | 1.0  | 48.08 |     |     |    | 5:MG=1308000 |     |
| 056 | tr243994 | SAMPLE | 173690-004 | 93375 | Soil   | 02-AUG-2004 11:54 | 1.0  | 51.55 |     |     |    | 5:MG=1777000 |     |
| 057 | tr243995 | SAMPLE | 173735-001 | 93375 | Soil   | 02-AUG-2004 11:58 | 1.0  | 50.51 |     |     |    | 4:FE=286200  |     |
| 058 | tr243996 | SAMPLE | 173735-002 | 93375 | Soil   | 02-AUG-2004 12:02 | 1.0  | 55.56 |     |     |    | 4:CA=326600  |     |
| 059 | tr243997 | SAMPLE | 173735-003 | 93375 | Soil   | 02-AUG-2004 12:07 | 1.0  | 41.32 | 1   |     |    | 5:CA=442200  |     |
| 060 | tr243998 | SAMPLE | 173735-006 | 93375 | Soil   | 02-AUG-2004 12:11 | 1.0  | 32.89 |     |     |    | 4:CA=1450000 |     |
| 061 | tr243999 | SAMPLE | 173735-007 | 93375 | Soil   | 02-AUG-2004 12:18 | 1.0  | 49.50 |     |     |    | 3:CA=974700  |     |
| 062 | tr244000 | CCV    |            |       |        | 02-AUG-2004 12:26 | 1.0  | 1.0   | 1   |     |    |              | 10  |

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319 8=04SS171 9=04SS172 10=04WS1318

Analyst: Merle Date: 8/10/04  
Page 2 of 3

SEQUENCE SUMMARY  
Curtis & Tompkins Laboratories

Sequence: 74310009 Instrument: MET07 TJA Trace ICP  
Analytical Method: EPA 6010B SOP Version: 6010B\_rv7

Begun: 02-AUG-2004

| #   | Filename | Type   | Samplenum  | Batch | Matrix | Analyzed          | IDF  | PDF   | IOC | SPK | uL | Stds | Used | >LR          |
|-----|----------|--------|------------|-------|--------|-------------------|------|-------|-----|-----|----|------|------|--------------|
| 063 | tr244001 | CCB    |            |       |        | 02-AUG-2004 12:29 | 1.0  | 1.0   |     |     |    |      |      |              |
| 064 | tr244002 | SAMPLE | 173735-003 | 93375 | Soil   | 02-AUG-2004 12:33 | 10.0 | 41.32 |     |     |    |      |      |              |
| 065 | tr244003 | SAMPLE | 173735-008 | 93375 | Soil   | 02-AUG-2004 12:37 | 1.0  | 51.02 |     |     |    |      |      | 3:FE=193800  |
| 066 | tr244004 | SAMPLE | 173735-009 | 93375 | Soil   | 02-AUG-2004 12:42 | 1.0  | 48.08 |     |     |    |      |      | 4:CA=816000  |
| 067 | tr244005 | SAMPLE | 173735-010 | 93375 | Soil   | 02-AUG-2004 12:46 | 1.0  | 35.71 |     |     |    |      |      | 4:CA=1227000 |
| 068 | tr244006 | SAMPLE | 173735-011 | 93375 | Soil   | 02-AUG-2004 12:50 | 1.0  | 50.0  |     |     |    |      |      | 4:FE=250000  |
| 069 | tr244007 | SAMPLE | 173740-001 | 93375 | Miscel | 02-AUG-2004 12:55 | 1.0  | 48.08 |     |     | 1  |      |      | 1:V=23700.0  |
| 070 | tr244008 | SAMPLE | 173740-002 | 93375 | Miscel | 02-AUG-2004 12:59 | 1.0  | 54.95 |     |     |    |      |      | 4:FE=369000  |
| 071 | tr244009 | SAMPLE | 173748-007 | 93375 | Soil   | 02-AUG-2004 13:04 | 1.0  | 42.02 |     |     |    |      |      |              |
| 072 | tr244010 | SAMPLE | 173740-001 | 93375 | Miscel | 02-AUG-2004 13:09 | 10.0 | 48.08 |     |     |    |      |      |              |
| 073 | tr244011 | ICSAB  |            |       |        | 02-AUG-2004 13:13 | 1.0  | 1.0   |     |     |    | 5    |      | 5:MG=492800  |
| 074 | tr244012 | CCV    |            |       |        | 02-AUG-2004 13:21 | 1.0  | 1.0   |     |     |    | 6    |      |              |
| 075 | tr244013 | CCB    |            |       |        | 02-AUG-2004 13:25 | 1.0  | 1.0   |     |     |    |      |      |              |

Stds used: 1=04WSI252 2=04WSI316 3=04WSI044 4=04WSI124 5=04WSI256 6=04WSI317 7=04WSI319 8=04SSI171 9=04SSI172 10=04WSI318

Analyst: Mei'la Date: 8/10/04  
Page 3 of 3

Method: 6010B      Standard: blank  
Run Time: 08/02/04 06:27:38

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | Sb2068 | Sb206A | As1890 | Ba4934 | Be3130 | Cd2265 | Cr2677 |
| Avge | -.003  | .003   | .001   | .001   | -.254  | .004   | .000   |
| SDev | .001   | .001   | .001   | .001   | .004   | .002   | .000   |
| %RSD | 37.1   | 22.8   | 71.5   | 61.6   | 1.75   | 45.4   | 4.80   |
| #1   | -.004  | .002   | .002   | .002   | -.250  | .005   | .000   |
| #2   | -.002  | .003   | .001   | .001   | -.257  | .003   | .000   |
| Elem | Co2286 | Cu3247 | Pb2203 | Pb220A | Mo2020 | Ni2316 | Se1960 |
| Avge | -.001  | .005   | .005   | -.003  | .001   | .003   | -.012  |
| SDev | .000   | .000   | .001   | .000   | .000   | .002   | .001   |
| %RSD | 25.6   | 7.97   | 10.4   | 15.5   | 17.0   | 63.7   | 4.93   |
| #1   | -.001  | .006   | .005   | -.002  | .002   | .004   | -.011  |
| #2   | -.001  | .005   | .005   | -.003  | .001   | .002   | -.012  |
| Elem | Se196A | Ag3280 | Tl1908 | V_2924 | Zn2138 | Al3082 | Ca3179 |
| Avge | .007   | .001   | -.006  | .001   | .033   | .0531  | -.0024 |
| SDev | .004   | .001   | .001   | .000   | .001   | .0010  | .0004  |
| %RSD | 60.3   | 141.   | 11.0   | 11.2   | 1.99   | 1.867  | 14.81  |
| #1   | .004   | .000   | -.005  | .001   | .033   | .0524  | -.0021 |
| #2   | .009   | .001   | -.006  | .001   | .034   | .0538  | -.0026 |
| Elem | Fe2714 | Mg2790 | Mn2576 | Ti3349 |        |        |        |
| Avge | -.0013 | .0003  | .001   | .191   |        |        |        |
| SDev | .0002  | .0002  | .000   | .004   |        |        |        |
| %RSD | 14.70  | 55.17  | 5.36   | 1.82   |        |        |        |
| #1   | -.0011 | .0004  | .001   | .188   |        |        |        |
| #2   | -.0014 | .0002  | .001   | .193   |        |        |        |

Method: 6010B Standard: cst hi  
Run Time: 08/02/04 06:31:02

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | Sb2068 | Sb206A | As1890 | Ba4934 | Be3130 | Cd2265 | Cr2677 |
| Avge | 1.40   | .753   | .307   | 15.1   | 2.84   | 1.16   | .245   |
| SDev | .06    | .038   | .013   | .9     | .15    | .06    | .012   |
| %RSD | 4.25   | 5.04   | 4.29   | 5.69   | 5.19   | 5.05   | 4.83   |
| #1   | 1.36   | .726   | .298   | 14.5   | 2.73   | 1.12   | .237   |
| #2   | 1.44   | .780   | .316   | 15.7   | 2.94   | 1.20   | .254   |
| Elem | Co2286 | Cu3247 | Pb2203 | Pb220A | Mo2020 | Ni2316 | Se1960 |
| Avge | .793   | .505   | .919   | .942   | 2.38   | 1.95   | .333   |
| SDev | .036   | .027   | .028   | .041   | .15    | .09    | .012   |
| %RSD | 4.59   | 5.36   | 3.00   | 4.39   | 6.13   | 4.87   | 3.57   |
| #1   | .767   | .486   | .900   | .912   | 2.27   | 1.88   | .324   |
| #2   | .819   | .524   | .939   | .971   | 2.48   | 2.01   | .341   |
| Elem | Se196A | Ag3280 | Tl1908 | V_2924 | Zn2138 | Al3082 | Ca3179 |
| Avge | .377   | .282   | .220   | .879   | .212   | .1640  | .3092  |
| SDev | .016   | .012   | .012   | .044   | .010   | .0088  | .0150  |
| %RSD | 4.21   | 4.14   | 5.37   | 5.01   | 4.55   | 5.349  | 4.864  |
| #1   | .366   | .274   | .212   | .848   | .205   | .1578  | .2985  |
| #2   | .389   | .290   | .229   | .910   | .219   | .1702  | .3198  |
| Elem | Fe2714 | Mg2790 | Mn2576 | Ti3349 |        |        |        |
| Avge | .1277  | .1791  | 1.13   | 7.01   |        |        |        |
| SDev | .0092  | .0094  | .06    | .37    |        |        |        |
| %RSD | 7.230  | 5.237  | 5.11   | 5.24   |        |        |        |
| #1   | .1212  | .1725  | 1.09   | 6.75   |        |        |        |
| #2   | .1343  | .1857  | 1.18   | 7.27   |        |        |        |

Method: 6010B

Slope = Conc(SIR)/IR

| Element | Wavelen | High std | Low std   | Slope   | Y-intercept | Date Standardized  |
|---------|---------|----------|-----------|---------|-------------|--------------------|
| Sb2068  | 206.831 | Multiple | Standards | 708.472 | 2.04411     | 08/02/04 06:31:02  |
| Sb206A  | 206.832 | Multiple | Standards | 1106.45 | -3.53568    | 08/02/04 06:31:02  |
| As1890  | 189.042 | Multiple | Standards | 1635.84 | -1.67862    | 08/02/04 06:31:02  |
| Ba4934  | 493.409 | Multiple | Standards | 66.2570 | -.087123    | 08/02/04 06:31:02  |
| Be3130  | 313.042 | Multiple | Standards | 31.2298 | 7.91692     | 08/02/04 06:31:02  |
| Cd2265  | 226.502 | Multiple | Standards | 86.6650 | -.358990    | 08/02/04 06:31:02  |
| Cr2677  | 267.716 | Multiple | Standards | 817.257 | -.354929    | 08/02/04 06:31:02  |
| Co2286  | 228.616 | Multiple | Standards | 631.367 | .632106     | 08/02/04 06:31:02  |
| Co3247  | 324.754 | Multiple | Standards | 400.441 | -2.15129    | 08/02/04 06:31:02  |
| Pb2203  | 220.351 | Multiple | Standards | 547.570 | -2.73396    | 08/02/04 06:31:02  |
| Pb220A  | 220.352 | Multiple | Standards | 524.896 | 1.39432     | 08/02/04 06:31:02  |
| Mo2020  | 202.030 | Multiple | Standards | 421.003 | -.616473    | 08/02/04 06:31:02  |
| Ni2316  | 231.604 | Multiple | Standards | 257.177 | -.703368    | 08/02/04 06:31:02  |
| Se1960  | 196.021 | Multiple | Standards | 1452.45 | 16.9614     | 08/02/04 06:31:02  |
| Se196A  | 196.022 | Multiple | Standards | 1346.71 | -8.95730    | 08/02/04 06:31:02  |
| Ag3280  | 328.068 | Multiple | Standards | 355.624 | -.225650    | 08/02/04 06:31:02  |
| Tl1908  | 190.864 | Multiple | Standards | 2232.40 | 12.3731     | 08/02/04 06:31:02  |
| V_2924  | 292.402 | Multiple | Standards | 569.395 | -.362202    | 08/02/04 06:31:02  |
| Zn2138  | 213.856 | Multiple | Standards | 576.840 | -19.1462    | 08/02/04 06:31:02  |
| Al3082  | 308.215 | Multiple | Standards | 9188.77 | -488.333    | 08/02/04 06:31:02  |
| Ca3179  | 317.933 | Multiple | Standards | 6419.49 | 15.3154     | 08/02/04 06:31:02  |
| Fe2714  | 271.441 | Multiple | Standards | 8115.02 | 10.1897     | 08/02/04 06:31:02  |
| Mg2790  | 279.079 | Multiple | Standards | 11179.6 | -3.22076    | 08/02/04 06:31:02  |
| Mn2576  | 257.610 | Multiple | Standards | 88.2563 | -.119997    | 08/02/04 06:31:02  |
| Pb sum  | 220.353 | NONE     | NONE      | 1.00000 | .000000     | *08/02/04 06:31:02 |
| Sb sum  | 206.838 | NONE     | NONE      | 1.00000 | .000000     | *08/02/04 06:31:02 |
| Se sum  | 196.026 | NONE     | NONE      | 1.00000 | .000000     | *08/02/04 06:31:02 |
| Ti3349  | 334.941 | Multiple | Standards | 146.682 | -27.9828    | 08/02/04 06:31:02  |

INITIAL CALIBRATION CHECK STANDARD  
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :  
Seqnum : 74310009001 Filename : tr243939 Injected : 02-AUG-2004 06:49  
Standards: 04WS1252 Caltype :

| Analyte    | SpkAmt    | QuantAmt  | Units | %D | Max | %D | Flags |
|------------|-----------|-----------|-------|----|-----|----|-------|
| Aluminum   | 1000.0000 | 1022.0000 | ug/L  | 2  |     | 5  |       |
| Antimony   | 1000.0000 | 1020.0000 | ug/L  | 2  |     | 5  |       |
| Arsenic    | 500.0000  | 511.0000  | ug/L  | 2  |     | 5  |       |
| Barium     | 1000.0000 | 1020.0000 | ug/L  | 2  |     | 5  |       |
| Beryllium  | 100.0000  | 102.0000  | ug/L  | 2  |     | 5  |       |
| Cadmium    | 100.0000  | 102.0000  | ug/L  | 2  |     | 5  |       |
| Calcium    | 2000.0000 | 2048.0000 | ug/L  | 2  |     | 5  |       |
| Chromium   | 200.0000  | 204.0000  | ug/L  | 2  |     | 5  |       |
| Cobalt     | 500.0000  | 511.0000  | ug/L  | 2  |     | 5  |       |
| Copper     | 200.0000  | 205.0000  | ug/L  | 3  |     | 5  |       |
| Iron       | 1000.0000 | 990.6000  | ug/L  | -1 |     | 5  |       |
| Lead       | 500.0000  | 512.0000  | ug/L  | 2  |     | 5  |       |
| Magnesium  | 2000.0000 | 2037.0000 | ug/L  | 2  |     | 5  |       |
| Manganese  | 100.0000  | 102.0000  | ug/L  | 2  |     | 5  |       |
| Molybdenum | 1000.0000 | 1020.0000 | ug/L  | 2  |     | 5  |       |
| Nickel     | 500.0000  | 512.0000  | ug/L  | 2  |     | 5  |       |
| Selenium   | 500.0000  | 512.0000  | ug/L  | 2  |     | 5  |       |
| Silver     | 100.0000  | 102.0000  | ug/L  | 2  |     | 5  |       |
| Thallium   | 500.0000  | 507.0000  | ug/L  | 1  |     | 5  |       |
| Titanium   | 1000.0000 | 1020.0000 | ug/L  | 2  |     | 5  |       |
| Vanadium   | 500.0000  | 512.0000  | ug/L  | 2  |     | 5  |       |
| Zinc       | 100.0000  | 102.0000  | ug/L  | 2  |     | 5  |       |

Curtis & Tompkins Laboratories

Injected : 02-AUG-2004 06:53  
Caltype :

| Analyte    | SpkAmt   | QuantAmt | Units | %D | Max Flags |
|------------|----------|----------|-------|----|-----------|
| Aluminum   | 500.0000 | 12.1000  | ug/L  | 2  | 10        |
| Antimony   | 500.0000 | 04.0000  | ug/L  | 1  | 10        |
| Arsenic    | 250.0000 | 46.0000  | ug/L  | -2 | 10        |
| Barium     | 500.0000 | 80.0000  | ug/L  | -4 | 10        |
| Beryllium  | 50.00000 | 9.40000  | ug/L  | -1 | 10        |
| Cadmium    | 50.00000 | 0.30000  | ug/L  | 1  | 10        |
| Calcium    | 1000.000 | 032.000  | ug/L  | 3  | 10        |
| Chromium   | 100.0000 | 00.0000  | ug/L  | 0  | 10        |
| Cobalt     | 250.0000 | 44.0000  | ug/L  | -2 | 10        |
| Copper     | 100.0000 | 9.80000  | ug/L  | 0  | 10        |
| Iron       | 500.0000 | 11.1000  | ug/L  | 2  | 10        |
| Lead       | 250.0000 | 53.0000  | ug/L  | 1  | 10        |
| Magnesium  | 1000.000 | 021.000  | ug/L  | 2  | 10        |
| Manganese  | 50.00000 | 9.20000  | ug/L  | -2 | 10        |
| Molybdenum | 500.0000 | 05.0000  | ug/L  | 1  | 10        |
| Nickel     | 250.0000 | 49.0000  | ug/L  | 0  | 10        |
| Selenium   | 250.0000 | 50.0000  | ug/L  | 0  | 10        |
| Silver     | 50.00000 | 9.20000  | ug/L  | -2 | 10        |
| Thallium   | 250.0000 | 42.0000  | ug/L  | -3 | 10        |
| Titanium   | 500.0000 | 98.0000  | ug/L  | 0  | 10        |
| Vanadium   | 250.0000 | 45.0000  | ug/L  | -2 | 10        |
| Zinc       | 50.00000 | 9.50000  | ug/L  | -1 | 10        |



INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74310009003  
Filename: tr243941

TJA Trace ICP  
Run Name:  
Run Type: ICB

Injected: 02-AUG-2004 06:57

| Analyte    | QuantAmt | RL       | Units | Req | Flags |
|------------|----------|----------|-------|-----|-------|
| Aluminum   | ND       | 100.0000 | ug/L  | <   | RL    |
| Antimony   | ND       | 60.00000 | ug/L  | <   | RL    |
| Arsenic    | ND       | 5.000000 | ug/L  | <   | RL    |
| Barium     | ND       | 10.00000 | ug/L  | <   | RL    |
| Beryllium  | ND       | 2.000000 | ug/L  | <   | RL    |
| Cadmium    | ND       | 5.000000 | ug/L  | <   | RL    |
| Calcium    | ND       | 500.0000 | ug/L  | <   | RL    |
| Chromium   | ND       | 10.00000 | ug/L  | <   | RL    |
| Cobalt     | ND       | 10.00000 | ug/L  | <   | RL    |
| Copper     | ND       | 10.00000 | ug/L  | <   | RL    |
| Iron       | ND       | 100.0000 | ug/L  | <   | RL    |
| Lead       | ND       | 3.000000 | ug/L  | <   | RL    |
| Magnesium  | ND       | 500.0000 | ug/L  | <   | RL    |
| Manganese  | ND       | 10.00000 | ug/L  | <   | RL    |
| Molybdenum | [6.1500] | 20.00000 | ug/L  | <   | RL    |
| Nickel     | ND       | 20.00000 | ug/L  | <   | RL    |
| Selenium   | ND       | 5.000000 | ug/L  | <   | RL    |
| Silver     | ND       | 5.000000 | ug/L  | <   | RL    |
| Thallium   | ND       | 5.000000 | ug/L  | <   | RL    |
| Titanium   | [1.0700] | 10.00000 | ug/L  | <   | RL    |
| Vanadium   | ND       | 10.00000 | ug/L  | <   | RL    |
| Zinc       | ND       | 20.00000 | ug/L  | <   | RL    |

Curtis & Tompkins Laboratories

Injected : 02-AUG-2004 07:01  
Caltype :

| Analyte    | SpkAmt   | QuantAmt | Units | %D Max | %D Flags |
|------------|----------|----------|-------|--------|----------|
| Aluminum   | 100.0000 | 207.4000 | ug/L  | 7      | 50       |
| Antimony   | 60.00000 | 59.00000 | ug/L  | -2     | 50       |
| Arsenic    | 5.000000 | 3.430000 | ug/L  | -31    | 50       |
| Barium     | 10.00000 | 9.810000 | ug/L  | -2     | 50       |
| Beryllium  | 2.000000 | 1.920000 | ug/L  | -4     | 50       |
| Cadmium    | 5.000000 | 5.240000 | ug/L  | 5      | 50       |
| Calcium    | 200.0000 | 217.7000 | ug/L  | 9      | 50       |
| Chromium   | 10.00000 | 10.30000 | ug/L  | 3      | 50       |
| Cobalt     | 20.00000 | 19.90000 | ug/L  | -1     | 50       |
| Copper     | 10.00000 | 10.40000 | ug/L  | 4      | 50       |
| Iron       | 100.0000 | 112.0000 | ug/L  | 12     | 50       |
| Lead       | 3.000000 | 3.230000 | ug/L  | 8      | 50       |
| Magnesium  | 200.0000 | 206.4000 | ug/L  | 3      | 50       |
| Manganese  | 10.00000 | 9.960000 | ug/L  | 0      | 50       |
| Molybdenum | 20.00000 | 21.80000 | ug/L  | 9      | 50       |
| Nickel     | 20.00000 | 20.30000 | ug/L  | 2      | 50       |
| Selenium   | 5.000000 | 7.400000 | ug/L  | 48     | 50       |
| Silver     | 5.000000 | 4.450000 | ug/L  | -11    | 50       |
| Thallium   | 5.000000 | 6.130000 | ug/L  | 23     | 50       |
| Vanadium   | 10.00000 | 10.30000 | ug/L  | 3      | 50       |
| Zinc       | 20.00000 | 19.10000 | ug/L  | -5     | 50       |

INTERFERENCE CHECK STANDARD A  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74310009005  
Filename: tr243943

TJA Trace ICP  
Run Name:  
Run Type: ICSA

Injected: 02-AUG-2004 07:11

| Analyte    | QuantAmt | RL       | Units | Req | Flags  |
|------------|----------|----------|-------|-----|--------|
| Antimony   | [3.0200] | 50.00000 | ug/L  | <RL |        |
| Arsenic    | [4.9900] | 5.000000 | ug/L  | <RL |        |
| Barium     | [0.1050] | 10.00000 | ug/L  | <RL |        |
| Beryllium  | [-0.936] | 2.000000 | ug/L  | <RL |        |
| Cadmium    | [0.5280] | 5.000000 | ug/L  | <RL |        |
| Chromium   | [3.0600] | 10.00000 | ug/L  | <RL |        |
| Cobalt     | [0.6910] | 10.00000 | ug/L  | <RL |        |
| Copper     | [-1.210] | 10.00000 | ug/L  | <RL |        |
| Lead       | [-0.362] | 3.000000 | ug/L  | <RL |        |
| Manganese  | [3.4300] | 10.00000 | ug/L  | <RL |        |
| Molybdenum | [0.5290] | 20.00000 | ug/L  | <RL |        |
| Nickel     | [2.0500] | 20.00000 | ug/L  | <RL |        |
| Selenium   | [-2.460] | 5.000000 | ug/L  | <RL |        |
| Silver     | [-0.379] | 5.000000 | ug/L  | <RL |        |
| Thallium   | [2.1400] | 5.000000 | ug/L  | <RL |        |
| Titanium   | 23.30000 | 10.00000 | ug/L  | <RL | a+ *** |
| Vanadium   | [-2.840] | 10.00000 | ug/L  | <RL |        |
| Zinc       | [-0.320] | 20.00000 | ug/L  | <RL |        |

SPIKED INTERFERENTS

| Analyte   | SpikeAmt | QuantAmt | Units | %REC |
|-----------|----------|----------|-------|------|
| Aluminum  | 500000   | 513700   | ug/L  | 103  |
| Calcium   | 500000   | 465500.  | ug/L  | 93   |
| Iron      | 200000   | 182000   | ug/L  | 91   |
| Magnesium | 500000   | 531700   | ug/L  | 106  |

INTERFERENCE CHECK STANDARD AB  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74310009006

Run Name :  
Filename : tr143944

Injected : 02-AUG-2004 07:14  
Caltype :

Standards: 04WS1256

| Analyte    | SpkAmt   | QuantAmt | Units | %D  | Max | %D | Flags |
|------------|----------|----------|-------|-----|-----|----|-------|
| Aluminum   | 500000.0 | 529200.0 | ug/L  | 6   |     |    |       |
| Antimony   | 500.0000 | 543.0000 | ug/L  | 9   | 20  |    |       |
| Arsenic    | 500.0000 | 528.0000 | ug/L  | 6   | 20  |    |       |
| Barium     | 500.0000 | 484.0000 | ug/L  | -3  | 20  |    |       |
| Beryllium  | 500.0000 | 506.0000 | ug/L  | 1   | 20  |    |       |
| Cadmium    | 1000.000 | 942.0000 | ug/L  | -6  | 20  |    |       |
| Calcium    | 500000.0 | 477000.0 | ug/L  | -5  |     |    |       |
| Chromium   | 500.0000 | 479.0000 | ug/L  | -4  | 20  |    |       |
| Cobalt     | 500.0000 | 485.0000 | ug/L  | -3  | 20  |    |       |
| Copper     | 500.0000 | 519.0000 | ug/L  | 4   | 20  |    |       |
| Iron       | 200000.0 | 187400.0 | ug/L  | -6  |     |    |       |
| Lead       | 1000.000 | 989.0000 | ug/L  | -1  | 20  |    |       |
| Magnesium  | 500000.0 | 548100.0 | ug/L  | 10  |     |    |       |
| Manganese  | 500.0000 | 477.0000 | ug/L  | -5  | 20  |    |       |
| Molybdenum | 500.0000 | 505.0000 | ug/L  | 1   | 20  |    |       |
| Nickel     | 1000.000 | 925.0000 | ug/L  | -8  | 20  |    |       |
| Selenium   | 500.0000 | 538.0000 | ug/L  | 8   | 20  |    |       |
| Silver     | 1000.000 | 890.0000 | ug/L  | -11 | 20  |    |       |
| Thallium   | 500.0000 | 498.0000 | ug/L  | 0   | 20  |    |       |
| Titanium   | 20000.00 | 21500.00 | ug/L  | 8   |     |    |       |
| Vanadium   | 500.0000 | 485.0000 | ug/L  | -3  | 20  |    |       |
| Zinc       | 1000.000 | 1040.000 | ug/L  | 4   | 20  |    |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0  
 Seqnum : 74310009014 Filename : tr243952 Injected : 02-AUG-2004 08:02  
 Standards: 04WS1317 Caltype :

| Analyte    | RF/CF | Sp        | Amt      | QuantAmt | Units | %D | Max | %D | Flags |
|------------|-------|-----------|----------|----------|-------|----|-----|----|-------|
| Aluminum   |       | 500.0000  | 519.6000 | ug/L     | 4     | 10 |     |    |       |
| Antimony   |       | 500.0000  | 509.0000 | ug/L     | 2     | 10 |     |    |       |
| Arsenic    |       | 250.0000  | 249.0000 | ug/L     | 0     | 10 |     |    |       |
| Barium     |       | 500.0000  | 494.0000 | ug/L     | -1    | 10 |     |    |       |
| Beryllium  |       | 50.000000 | 49.60000 | ug/L     | -1    | 10 |     |    |       |
| Cadmium    |       | 50.000000 | 50.30000 | ug/L     | 1     | 10 |     |    |       |
| Calcium    |       | 1000.000  | 1031.000 | ug/L     | 3     | 10 |     |    |       |
| Chromium   |       | 100.0000  | 101.0000 | ug/L     | 1     | 10 |     |    |       |
| Cobalt     |       | 250.0000  | 244.0000 | ug/L     | -2    | 10 |     |    |       |
| Copper     |       | 100.0000  | 103.0000 | ug/L     | 3     | 10 |     |    |       |
| Iron       |       | 500.0000  | 486.5000 | ug/L     | -3    | 10 |     |    |       |
| Lead       |       | 250.0000  | 250.0000 | ug/L     | 0     | 10 |     |    |       |
| Magnesium  |       | 1000.000  | 1026.000 | ug/L     | 3     | 10 |     |    |       |
| Manganese  |       | 50.000000 | 49.50000 | ug/L     | -1    | 10 |     |    |       |
| Molybdenum |       | 500.0000  | 512.0000 | ug/L     | 2     | 10 |     |    |       |
| Nickel     |       | 250.0000  | 249.0000 | ug/L     | 0     | 10 |     |    |       |
| Selenium   |       | 250.0000  | 247.0000 | ug/L     | -1    | 10 |     |    |       |
| Silver     |       | 50.000000 | 49.80000 | ug/L     | 0     | 10 |     |    |       |
| Thallium   |       | 250.0000  | 246.0000 | ug/L     | -2    | 10 |     |    |       |
| Titanium   |       | 500.0000  | 506.0000 | ug/L     | 1     | 10 |     |    |       |
| Vanadium   |       | 250.0000  | 247.0000 | ug/L     | -1    | 10 |     |    |       |
| Zinc       |       | 50.000000 | 49.50000 | ug/L     | -1    | 10 |     |    |       |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74310009015  
Filename: tr243953

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 02-AUG-2004 08:09

| Analyte    | QuantAmt | RL       | Units | Req Flags |
|------------|----------|----------|-------|-----------|
| Aluminum   | ND       | 100.0000 | ug/L  | <RL       |
| Antimony   | ND       | 60.00000 | ug/L  | <RL       |
| Arsenic    | ND       | 5.000000 | ug/L  | <RL       |
| Barium     | ND       | 10.00000 | ug/L  | <RL       |
| Beryllium  | ND       | 2.000000 | ug/L  | <RL       |
| Cadmium    | ND       | 5.000000 | ug/L  | <RL       |
| Calcium    | [33.700] | 500.0000 | ug/L  | <RL       |
| Chromium   | ND       | 10.00000 | ug/L  | <RL       |
| Cobalt     | ND       | 10.00000 | ug/L  | <RL       |
| Copper     | ND       | 10.00000 | ug/L  | <RL       |
| Iron       | [18.800] | 100.0000 | ug/L  | <RL       |
| Lead       | ND       | 3.000000 | ug/L  | <RL       |
| Magnesium  | [20.990] | 500.0000 | ug/L  | <RL       |
| Manganese  | ND       | 10.00000 | ug/L  | <RL       |
| Molybdenum | [5.4500] | 20.00000 | ug/L  | <RL       |
| Nickel     | ND       | 20.00000 | ug/L  | <RL       |
| Selenium   | ND       | 5.000000 | ug/L  | <RL       |
| Silver     | ND       | 5.000000 | ug/L  | <RL       |
| Thallium   | ND       | 5.000000 | ug/L  | <RL       |
| Titanium   | [1.5800] | 10.00000 | ug/L  | <RL       |
| Vanadium   | ND       | 10.00000 | ug/L  | <RL       |
| Zinc       | ND       | 20.00000 | ug/L  | <RL       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0  
Seqnum : 74310009026 Filename : tr243964 Injected : 02-AUG-2004 08:57  
Standards: 04WS1319 Caltype :

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D Max | %D | Flags |
|------------|-------|----------|----------|-------|--------|----|-------|
| Aluminum   |       | 750.0000 | 771.9000 | ug/L  | 3      | 10 |       |
| Antimony   |       | 750.0000 | 762.0000 | ug/L  | 2      | 10 |       |
| Arsenic    |       | 375.0000 | 374.0000 | ug/L  | 0      | 10 |       |
| Barium     |       | 750.0000 | 740.0000 | ug/L  | -1     | 10 |       |
| Beryllium  |       | 75.00000 | 74.20000 | ug/L  | -1     | 10 |       |
| Cadmium    |       | 75.00000 | 74.20000 | ug/L  | -1     | 10 |       |
| Calcium    |       | 1500.000 | 1494.000 | ug/L  | 0      | 10 |       |
| Chromium   |       | 150.0000 | 150.0000 | ug/L  | 0      | 10 |       |
| Cobalt     |       | 375.0000 | 363.0000 | ug/L  | -3     | 10 |       |
| Copper     |       | 150.0000 | 152.0000 | ug/L  | 1      | 10 |       |
| Iron       |       | 750.0000 | 730.0000 | ug/L  | -3     | 10 |       |
| Lead       |       | 375.0000 | 371.0000 | ug/L  | -1     | 10 |       |
| Magnesium  |       | 1500.000 | 1517.000 | ug/L  | 1      | 10 |       |
| Manganese  |       | 75.00000 | 72.70000 | ug/L  | -3     | 10 |       |
| Molybdenum |       | 750.0000 | 751.0000 | ug/L  | 0      | 10 |       |
| Nickel     |       | 375.0000 | 370.0000 | ug/L  | -1     | 10 |       |
| Selenium   |       | 375.0000 | 370.0000 | ug/L  | -1     | 10 |       |
| Silver     |       | 75.00000 | 75.20000 | ug/L  | 0      | 10 |       |
| Thallium   |       | 375.0000 | 362.0000 | ug/L  | -3     | 10 |       |
| Titanium   |       | 750.0000 | 753.0000 | ug/L  | 0      | 10 |       |
| Vanadium   |       | 375.0000 | 369.0000 | ug/L  | -2     | 10 |       |
| Zinc       |       | 75.00000 | 74.60000 | ug/L  | -1     | 10 |       |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74310009027  
Filename: tr243965

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 02-AUG-2004 09:00

| Analyte    | QuantAmt | Units          | Req | Flags |
|------------|----------|----------------|-----|-------|
| Aluminum   | ND       | 00.00000 ug/L  | <RL |       |
| Antimony   | ND       | 00.00000 ug/L  | <RL |       |
| Arsenic    | ND       | 00.000000 ug/L | <RL |       |
| Barium     | ND       | 00.00000 ug/L  | <RL |       |
| Beryllium  | ND       | 00.000000 ug/L | <RL |       |
| Cadmium    | ND       | 00.000000 ug/L | <RL |       |
| Calcium    | [33.980] | 000.0000 ug/L  | <RL |       |
| Chromium   | ND       | 00.00000 ug/L  | <RL |       |
| Cobalt     | ND       | 00.00000 ug/L  | <RL |       |
| Copper     | ND       | 00.00000 ug/L  | <RL |       |
| Iron       | [38.180] | 000.0000 ug/L  | <RL |       |
| Lead       | ND       | 00.000000 ug/L | <RL |       |
| Magnesium  | [21.410] | 000.0000 ug/L  | <RL |       |
| Manganese  | [0.4570] | 00.00000 ug/L  | <RL |       |
| Molybdenum | [5.5600] | 00.00000 ug/L  | <RL |       |
| Nickel     | ND       | 00.00000 ug/L  | <RL |       |
| Selenium   | ND       | 00.000000 ug/L | <RL |       |
| Silver     | ND       | 00.000000 ug/L | <RL |       |
| Thallium   | ND       | 00.000000 ug/L | <RL |       |
| Titanium   | [2.3100] | 00.00000 ug/L  | <RL |       |
| Vanadium   | ND       | 00.00000 ug/L  | <RL |       |
| Zinc       | ND       | 00.00000 ug/L  | <RL |       |



CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74310009038

Run Name :  
Filename : tr43976

IDF : 1.0  
Injected : 02-AUG-2004 09:52  
Caltype :

Standards: 04WS1317

| Analyte    | RF/CF    | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|----------|----------|----------|-------|----|-----|----|-------|
| Aluminum   | 500.0000 | 567.2000 | ug/L     | 13    | 10 | C+  | ** |       |
| Antimony   | 500.0000 | 508.0000 | ug/L     | 2     | 10 |     |    |       |
| Arsenic    | 250.0000 | 254.0000 | ug/L     | 2     | 10 |     |    |       |
| Barium     | 500.0000 | 494.0000 | ug/L     | -1    | 10 |     |    |       |
| Beryllium  | 500.0000 | 49.70000 | ug/L     | -1    | 10 |     |    |       |
| Cadmium    | 500.0000 | 50.90000 | ug/L     | 2     | 10 |     |    |       |
| Calcium    | 1000.000 | 1022.000 | ug/L     | 2     | 10 |     |    |       |
| Chromium   | 100.0000 | 101.0000 | ug/L     | 1     | 10 |     |    |       |
| Cobalt     | 250.0000 | 244.0000 | ug/L     | -2    | 10 |     |    |       |
| Copper     | 100.0000 | 101.0000 | ug/L     | 1     | 10 |     |    |       |
| Iron       | 500.0000 | 555.9000 | ug/L     | 11    | 10 | C+  | ** |       |
| Lead       | 250.0000 | 251.0000 | ug/L     | 0     | 10 |     |    |       |
| Magnesium  | 1000.000 | 1041.000 | ug/L     | 4     | 10 |     |    |       |
| Manganese  | 500.0000 | 49.80000 | ug/L     | 0     | 10 |     |    |       |
| Molybdenum | 500.0000 | 499.0000 | ug/L     | 0     | 10 |     |    |       |
| Nickel     | 250.0000 | 252.0000 | ug/L     | 1     | 10 |     |    |       |
| Selenium   | 250.0000 | 247.0000 | ug/L     | -1    | 10 |     |    |       |
| Silver     | 500.0000 | 49.50000 | ug/L     | -1    | 10 |     |    |       |
| Thallium   | 250.0000 | 238.0000 | ug/L     | -5    | 10 |     |    |       |
| Titanium   | 500.0000 | 508.0000 | ug/L     | 2     | 10 |     |    |       |
| Vanadium   | 250.0000 | 246.0000 | ug/L     | -2    | 10 |     |    |       |
| Zinc       | 500.0000 | 52.10000 | ug/L     | 4     | 10 |     |    |       |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74310009039  
Filename: tr243977

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 02-AUG-2004 09:56

| Analyte    | QuantAmt | RL       | Units | Req | Flags |
|------------|----------|----------|-------|-----|-------|
| Aluminum   | ND       | 100.0000 | ug/L  | <RL |       |
| Antimony   | ND       | 50.00000 | ug/L  | <RL |       |
| Arsenic    | ND       | 5.000000 | ug/L  | <RL |       |
| Barium     | ND       | 10.00000 | ug/L  | <RL |       |
| Beryllium  | ND       | 2.000000 | ug/L  | <RL |       |
| Cadmium    | ND       | 5.000000 | ug/L  | <RL |       |
| Calcium    | [31.760] | 500.0000 | ug/L  | <RL |       |
| Chromium   | ND       | 10.00000 | ug/L  | <RL |       |
| Cobalt     | ND       | 10.00000 | ug/L  | <RL |       |
| Copper     | ND       | 10.00000 | ug/L  | <RL |       |
| Iron       | [38.090] | 100.0000 | ug/L  | <RL |       |
| Lead       | [2.0500] | 3.000000 | ug/L  | <RL |       |
| Magnesium  | [19.490] | 500.0000 | ug/L  | <RL |       |
| Manganese  | [0.5550] | 10.00000 | ug/L  | <RL |       |
| Molybdenum | [4.5500] | 20.00000 | ug/L  | <RL |       |
| Nickel     | ND       | 20.00000 | ug/L  | <RL |       |
| Selenium   | ND       | 5.000000 | ug/L  | <RL |       |
| Silver     | ND       | 5.000000 | ug/L  | <RL |       |
| Thallium   | ND       | 5.000000 | ug/L  | <RL |       |
| Titanium   | [3.1000] | 10.00000 | ug/L  | <RL |       |
| Vanadium   | ND       | 10.00000 | ug/L  | <RL |       |
| Zinc       | ND       | 20.00000 | ug/L  | <RL |       |

CONTINUING CALIERATION REPORT  
Curtis & Tompkirs Laboratories

Instid : MET07 Run Name : IDF : 1.0  
Seqnum : 74310009050 Filename : tr243988 Injected : 02-AUG-2004 11:27  
Standards: 04WS1319 Caltype :

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|-------|----------|----------|-------|----|-----|----|-------|
| Aluminum   |       | 750.0000 | 748.1000 | ug/L  | 0  |     | 10 |       |
| Antimony   |       | 750.0000 | 744.0000 | ug/L  | -1 |     | 10 |       |
| Arsenic    |       | 375.0000 | 369.0000 | ug/L  | -2 |     | 10 |       |
| Barium     |       | 750.0000 | 722.0000 | ug/L  | -4 |     | 10 |       |
| Beryllium  |       | 75.00000 | 73.10000 | ug/L  | -3 |     | 10 |       |
| Cadmium    |       | 75.00000 | 73.90000 | ug/L  | -1 |     | 10 |       |
| Calcium    |       | 1500.000 | 1440.000 | ug/L  | -4 |     | 10 |       |
| Chromium   |       | 150.0000 | 147.0000 | ug/L  | -2 |     | 10 |       |
| Cobalt     |       | 375.0000 | 357.0000 | ug/L  | -5 |     | 10 |       |
| Copper     |       | 150.0000 | 146.0000 | ug/L  | -3 |     | 10 |       |
| Iron       |       | 750.0000 | 710.7000 | ug/L  | -5 |     | 10 |       |
| Lead       |       | 375.0000 | 366.0000 | ug/L  | -2 |     | 10 |       |
| Magnesium  |       | 1500.000 | 1564.000 | ug/L  | 4  |     | 10 |       |
| Manganese  |       | 75.00000 | 70.70000 | ug/L  | -6 |     | 10 |       |
| Molybdenum |       | 750.0000 | 729.0000 | ug/L  | -3 |     | 10 |       |
| Nickel     |       | 375.0000 | 367.0000 | ug/L  | -2 |     | 10 |       |
| Selenium   |       | 375.0000 | 364.0000 | ug/L  | -3 |     | 10 |       |
| Silver     |       | 75.00000 | 72.40000 | ug/L  | -3 |     | 10 |       |
| Thallium   |       | 375.0000 | 355.0000 | ug/L  | -5 |     | 10 |       |
| Titanium   |       | 750.0000 | 736.0000 | ug/L  | -2 |     | 10 |       |
| Vanadium   |       | 375.0000 | 358.0000 | ug/L  | -5 |     | 10 |       |
| Zinc       |       | 75.00000 | 74.90000 | ug/L  | 0  |     | 10 |       |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07      TJA Trace ICP  
Seqnum: 74310009051      Run Name:  
Filename: tr243989      Run Type: CCB

Injected: 02-AUG-2004 11:32

| Analyte    | QuantAmt | RL       | Units | Req | Flags |
|------------|----------|----------|-------|-----|-------|
| Aluminum   | ND       | 100.0000 | ug/L  | <RL |       |
| Antimony   | ND       | 50.00000 | ug/L  | <RL |       |
| Arsenic    | ND       | 5.000000 | ug/L  | <RL |       |
| Barium     | ND       | 10.00000 | ug/L  | <RL |       |
| Beryllium  | [0.4180] | 2.000000 | ug/L  | <RL |       |
| Cadmium    | ND       | 5.000000 | ug/L  | <RL |       |
| Calcium    | [28.790] | 500.0000 | ug/L  | <RL |       |
| Chromium   | ND       | 10.00000 | ug/L  | <RL |       |
| Cobalt     | ND       | 10.00000 | ug/L  | <RL |       |
| Copper     | ND       | 10.00000 | ug/L  | <RL |       |
| Iron       | [28.590] | 100.0000 | ug/L  | <RL |       |
| Lead       | [2.8900] | 3.000000 | ug/L  | <RL |       |
| Magnesium  | [56.440] | 500.0000 | ug/L  | <RL |       |
| Manganese  | ND       | 10.00000 | ug/L  | <RL |       |
| Molybdenum | [2.9800] | 20.00000 | ug/L  | <RL |       |
| Nickel     | ND       | 20.00000 | ug/L  | <RL |       |
| Selenium   | ND       | 5.000000 | ug/L  | <RL |       |
| Silver     | ND       | 5.000000 | ug/L  | <RL |       |
| Thallium   | ND       | 5.000000 | ug/L  | <RL |       |
| Titanium   | [1.9500] | 10.00000 | ug/L  | <RL |       |
| Vanadium   | ND       | 10.00000 | ug/L  | <RL |       |
| Zinc       | ND       | 20.00000 | ug/L  | <RL |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74310009062

Run Name :  
Filename : tr244000

IDF : 1.0  
Injected : 02-AUG-2004 12:26  
Caltype :

Standards: 04WS1318

| Analyte    | RF/CF | Sp Amt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|-------|----------|----------|-------|----|-----|----|-------|
| Aluminum   |       | 250.0000 | 246.7000 | ug/L  | -1 | 10  |    |       |
| Antimony   |       | 250.0000 | 251.0000 | ug/L  | 0  | 10  |    |       |
| Arsenic    |       | 125.0000 | 125.0000 | ug/L  | 0  | 10  |    |       |
| Barium     |       | 250.0000 | 243.0000 | ug/L  | -3 | 10  |    |       |
| Beryllium  |       | 25.00000 | 24.70000 | ug/L  | -1 | 10  |    |       |
| Cadmium    |       | 25.00000 | 25.20000 | ug/L  | 1  | 10  |    |       |
| Calcium    |       | 500.0000 | 564.0000 | ug/L  | 13 | 10  |    |       |
| Chromium   |       | 50.00000 | 49.60000 | ug/L  | -1 | 10  |    | c+ ** |
| Cobalt     |       | 125.0000 | 120.0000 | ug/L  | -4 | 10  |    |       |
| Copper     |       | 50.00000 | 49.30000 | ug/L  | -1 | 10  |    |       |
| Iron       |       | 250.0000 | 242.6000 | ug/L  | -3 | 10  |    |       |
| Lead       |       | 125.0000 | 124.0000 | ug/L  | -1 | 10  |    |       |
| Magnesium  |       | 500.0000 | 512.0000 | ug/L  | 2  | 10  |    |       |
| Manganese  |       | 25.00000 | 23.90000 | ug/L  | -4 | 10  |    |       |
| Molybdenum |       | 250.0000 | 247.0000 | ug/L  | -1 | 10  |    |       |
| Nickel     |       | 125.0000 | 124.0000 | ug/L  | -1 | 10  |    |       |
| Selenium   |       | 125.0000 | 126.0000 | ug/L  | 1  | 10  |    |       |
| Silver     |       | 25.00000 | 24.00000 | ug/L  | -4 | 10  |    |       |
| Thallium   |       | 125.0000 | 120.0000 | ug/L  | -4 | 10  |    |       |
| Titanium   |       | 250.0000 | 247.0000 | ug/L  | -1 | 10  |    |       |
| Vanadium   |       | 125.0000 | 120.0000 | ug/L  | -4 | 10  |    |       |
| Zinc       |       | 25.00000 | 25.10000 | ug/L  | 0  | 10  |    |       |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74310009063  
Filename: tr244001

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 02-AUG-2004 12:29

| Analyte    | QuantAmt | RL       | Units | Req | Flags |
|------------|----------|----------|-------|-----|-------|
| Aluminum   | ND       | 100.0000 | ug/L  | <RL |       |
| Antimony   | ND       | 50.00000 | ug/L  | <RL |       |
| Arsenic    | ND       | 5.000000 | ug/L  | <RL |       |
| Barium     | ND       | 10.00000 | ug/L  | <RL |       |
| Beryllium  | [0.6110] | 2.000000 | ug/L  | <RL |       |
| Cadmium    | ND       | 5.000000 | ug/L  | <RL |       |
| Calcium    | [67.900] | 500.0000 | ug/L  | <RL |       |
| Chromium   | ND       | 10.00000 | ug/L  | <RL |       |
| Cobalt     | ND       | 10.00000 | ug/L  | <RL |       |
| Copper     | ND       | 10.00000 | ug/L  | <RL |       |
| Iron       | [22.470] | 100.0000 | ug/L  | <RL |       |
| Lead       | [1.5300] | 3.000000 | ug/L  | <RL |       |
| Magnesium  | [25.630] | 500.0000 | ug/L  | <RL |       |
| Manganese  | ND       | 10.00000 | ug/L  | <RL |       |
| Molybdenum | ND       | 20.00000 | ug/L  | <RL |       |
| Nickel     | ND       | 20.00000 | ug/L  | <RL |       |
| Selenium   | ND       | 5.000000 | ug/L  | <RL |       |
| Silver     | ND       | 5.000000 | ug/L  | <RL |       |
| Thallium   | ND       | 5.000000 | ug/L  | <RL |       |
| Titanium   | [1.8700] | 10.00000 | ug/L  | <RL |       |
| Vanadium   | ND       | 10.00000 | ug/L  | <RL |       |
| Zinc       | ND       | 20.00000 | ug/L  | <RL |       |

INTERFERENCE CHECK STANDARD AB  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 74310009073

Run Name :  
Filename : tr244011

Injected : 02-AUG-2004 13:13  
Caltype :

Standards: 04WS1256

| Analyte    | SpkAmt   | QuantAmt | Units | %D  | Max | %D | Flags |
|------------|----------|----------|-------|-----|-----|----|-------|
| Aluminum   | 500000.0 | 483900.0 | ug/L  | -3  |     |    |       |
| Antimony   | 500.0000 | 501.0000 | ug/L  | 0   | 20  |    |       |
| Arsenic    | 500.0000 | 488.0000 | ug/L  | -2  | 20  |    |       |
| Barium     | 500.0000 | 458.0000 | ug/L  | -8  | 20  |    |       |
| Beryllium  | 500.0000 | 444.0000 | ug/L  | -11 | 20  |    |       |
| Cadmium    | 1000.000 | 375.0000 | ug/L  | -13 | 20  |    |       |
| Calcium    | 500000.0 | 401400.0 | ug/L  | -20 |     |    |       |
| Chromium   | 500.0000 | 433.0000 | ug/L  | -13 | 20  |    |       |
| Cobalt     | 500.0000 | 431.0000 | ug/L  | -14 | 20  |    |       |
| Copper     | 500.0000 | 459.0000 | ug/L  | -8  | 20  |    |       |
| Iron       | 200000.0 | 154700.0 | ug/L  | -23 |     |    |       |
| Lead       | 1000.000 | 390.0000 | ug/L  | -11 | 20  |    |       |
| Magnesium  | 500000.0 | 492800.0 | ug/L  | -1  |     |    |       |
| Manganese  | 500.0000 | 415.0000 | ug/L  | -17 | 20  |    |       |
| Molybdenum | 500.0000 | 453.0000 | ug/L  | -9  | 20  |    |       |
| Nickel     | 1000.000 | 348.0000 | ug/L  | -15 | 20  |    |       |
| Selenium   | 500.0000 | 483.0000 | ug/L  | -3  | 20  |    |       |
| Silver     | 1000.000 | 798.0000 | ug/L  | -20 | 20  |    |       |
| Thallium   | 500.0000 | 461.0000 | ug/L  | -8  | 20  |    |       |
| Titanium   | 20000.00 | 19400.00 | ug/L  | -3  |     |    |       |
| Vanadium   | 500.0000 | 430.0000 | ug/L  | -14 | 20  |    |       |
| Zinc       | 1000.000 | 967.0000 | ug/L  | -3  | 20  |    |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

|                      |                     |                              |
|----------------------|---------------------|------------------------------|
| Instid : MET07       | Run Name :          | IDF : 1.0                    |
| Seqnum : 74310009074 | Filename : tr214012 | Injected : 02-AUG-2004 13:21 |
| Standards: 04WS1317  |                     | Caltype :                    |

| Analyte    | RF/CF | Sp Amt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|-------|----------|----------|-------|----|-----|----|-------|
| Aluminum   |       | 500.0000 | 528.5000 | ug/L  | 6  | 10  |    |       |
| Antimony   |       | 500.0000 | 499.0000 | ug/L  | 0  | 10  |    |       |
| Arsenic    |       | 250.0000 | 250.0000 | ug/L  | 0  | 10  |    |       |
| Barium     |       | 500.0000 | 487.0000 | ug/L  | -3 | 10  |    |       |
| Beryllium  |       | 50.00000 | 48.60000 | ug/L  | -3 | 10  |    |       |
| Cadmium    |       | 50.00000 | 50.00000 | ug/L  | 0  | 10  |    |       |
| Calcium    |       | 1000.000 | 965.6000 | ug/L  | -3 | 10  |    |       |
| Chromium   |       | 100.0000 | 97.70000 | ug/L  | -2 | 10  |    |       |
| Cobalt     |       | 250.0000 | 236.0000 | ug/L  | -6 | 10  |    |       |
| Copper     |       | 100.0000 | 95.90000 | ug/L  | -4 | 10  |    |       |
| Iron       |       | 500.0000 | 479.5000 | ug/L  | -4 | 10  |    |       |
| Lead       |       | 250.0000 | 246.0000 | ug/L  | -2 | 10  |    |       |
| Magnesium  |       | 1000.000 | 1018.000 | ug/L  | 2  | 10  |    |       |
| Manganese  |       | 50.00000 | 46.60000 | ug/L  | -7 | 10  |    |       |
| Molybdenum |       | 500.0000 | 497.0000 | ug/L  | -1 | 10  |    |       |
| Nickel     |       | 250.0000 | 245.0000 | ug/L  | -2 | 10  |    |       |
| Selenium   |       | 250.0000 | 248.0000 | ug/L  | -1 | 10  |    |       |
| Silver     |       | 50.00000 | 47.00000 | ug/L  | -6 | 10  |    |       |
| Thallium   |       | 250.0000 | 246.0000 | ug/L  | -2 | 10  |    |       |
| Titanium   |       | 500.0000 | 489.0000 | ug/L  | -2 | 10  |    |       |
| Vanadium   |       | 250.0000 | 236.0000 | ug/L  | -6 | 10  |    |       |
| Zinc       |       | 50.00000 | 50.70000 | ug/L  | 1  | 10  |    |       |



INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 74310009075  
Filename: tr244013

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 02-AUG-2004 13:25

| Analyte    | QuantAmt | U        | Units | Req | Flags |
|------------|----------|----------|-------|-----|-------|
| Aluminum   | ND       | 00.0000  | ug/L  | <RL |       |
| Antimony   | ND       | 0.00000  | ug/L  | <RL |       |
| Arsenic    | ND       | 0.000000 | ug/L  | <RL |       |
| Barium     | ND       | 0.00000  | ug/L  | <RL |       |
| Beryllium  | [0.9480] | 0.000000 | ug/L  | <RL |       |
| Cadmium    | ND       | 0.000000 | ug/L  | <RL |       |
| Calcium    | [29.340] | 00.0000  | ug/L  | <RL |       |
| Chromium   | ND       | 0.00000  | ug/L  | <RL |       |
| Cobalt     | ND       | 0.00000  | ug/L  | <RL |       |
| Copper     | ND       | 0.00000  | ug/L  | <RL |       |
| Iron       | [26.980] | 00.0000  | ug/L  | <RL |       |
| Lead       | [1.1500] | 0.000000 | ug/L  | <RL |       |
| Magnesium  | [37.170] | 00.0000  | ug/L  | <RL |       |
| Manganese  | ND       | 0.00000  | ug/L  | <RL |       |
| Molybdenum | [3.5900] | 0.00000  | ug/L  | <RL |       |
| Nickel     | ND       | 0.00000  | ug/L  | <RL |       |
| Selenium   | ND       | 0.000000 | ug/L  | <RL |       |
| Silver     | ND       | 0.000000 | ug/L  | <RL |       |
| Thallium   | ND       | 0.000000 | ug/L  | <RL |       |
| Titanium   | [2.5500] | 0.00000  | ug/L  | <RL |       |
| Vanadium   | ND       | 0.00000  | ug/L  | <RL |       |
| Zinc       | ND       | 0.00000  | ug/L  | <RL |       |

## Curtis &amp; Tompkins Laboratories

## Sample Preparation Summary

02-AUG-2004 07:44

Batch Number : 93374  
Date Extracted : 02-AUG-2004  
Extracted by : Victor Vergara  
Prep Method : 3050

Analysis : N/A  
Bgrupp : ICA  
Units : g  
Clean-up :

Spike #1 ID : 04SS171  
Spike #2 ID : 04SS172  
Spike #3 ID :

| Sample     | Type  | Client                         | Matrix | Init W/V | Units | Final Vol | Prep D.F. | Clean D.F. | pH | Sp 1 Vol | Sp 2 Vol | Sp 3 Vol | Analyses | Clean Method | Comments |
|------------|-------|--------------------------------|--------|----------|-------|-----------|-----------|------------|----|----------|----------|----------|----------|--------------|----------|
| 173724-002 |       | Innovative Technical Solutions | Soil   | 1.15     | g     | 50        | 43.478261 | 1          |    |          |          |          | T26/ICP  |              |          |
| 173727-001 |       | CH2M Hill Constructors Inc.    | Soil   | 1        | g     | 50        | 50.000000 | 1          |    |          |          |          | T26/ICP  |              |          |
| 173729-001 |       | CH2M Hill Constructors Inc.    | Soil   | 1.26     | g     | 50        | 39.682540 | 1          |    |          |          |          | PB       |              |          |
| 173729-002 |       | CH2M Hill Constructors Inc.    | Soil   | 1.15     | g     | 50        | 43.478261 | 1          |    |          |          |          | PB       |              |          |
| 173729-003 |       | CH2M Hill Constructors Inc.    | Soil   | 1.03     | g     | 50        | 48.543689 | 1          |    |          |          |          | PB       |              |          |
| 173729-004 |       | CH2M Hill Constructors Inc.    | Soil   | .98      | g     | 50        | 51.020408 | 1          |    |          |          |          | PB       |              |          |
| 173729-005 |       | CH2M Hill Constructors Inc.    | Soil   | 1        | g     | 50        | 50.000000 | 1          |    |          |          |          | PB       |              | mss      |
| 173729-007 |       | CH2M Hill Constructors Inc.    | Soil   | 1.05     | g     | 50        | 47.619048 | 1          |    |          |          |          | PB       |              |          |
| 173729-008 |       | CH2M Hill Constructors Inc.    | Soil   | .98      | g     | 50        | 51.020408 | 1          |    |          |          |          | PB       |              |          |
| 173730-001 |       | CH2M Hill Constructors Inc.    | Soil   | 1.24     | g     | 50        | 40.322581 | 1          |    |          |          |          | PB       |              |          |
| 173730-002 |       | CH2M Hill Constructors Inc.    | Soil   | 1.04     | g     | 50        | 48.076923 | 1          |    |          |          |          | PB       |              |          |
| 173730-003 |       | CH2M Hill Constructors Inc.    | Soil   | 1.51     | g     | 50        | 33.112583 | 1          |    |          |          |          | PB       |              |          |
| 173730-004 |       | CH2M Hill Constructors Inc.    | Soil   | .98      | g     | 50        | 51.020408 | 1          |    |          |          |          | PB       |              |          |
| 173730-005 |       | CH2M Hill Constructors Inc.    | Soil   | 1.16     | g     | 50        | 43.103448 | 1          |    |          |          |          | PB       |              |          |
| 173741-001 |       | Treadwell & Rollo              | Soil   | 1.03     | g     | 50        | 48.543689 | 1          |    |          |          |          | T26/ICP  |              |          |
| 173746-005 |       | Geologica                      | Soil   | 1.08     | g     | 50        | 46.296296 | 1          |    |          |          |          | PB       |              |          |
| 173746-010 |       | Geologica                      | Soil   | .9       | g     | 50        | 55.555556 | 1          |    |          |          |          | PB       |              |          |
| 173746-015 |       | Geologica                      | Soil   | 1.02     | g     | 50        | 49.019608 | 1          |    |          |          |          | PB       |              |          |
| QC259725   | BLANK |                                | Soil   | 1        | g     | 50        | 50.000000 | 1          |    |          |          |          | ICAP     |              |          |
| QC259726   | BS    |                                | Soil   | 1        | g     | 50        | 50.000000 | 1          |    |          |          |          | ICAP     |              |          |
| QC259727   | BSD   |                                | Soil   | 1        | g     | 50        | 50.000000 | 1          |    |          |          |          | ICAP     |              |          |
| QC259728   | MS    | of 173729-004                  | Soil   | 1.07     | g     | 50        | 46.728972 | 1          |    |          |          |          | ICAP     |              |          |
| QC259729   | MSD   | of 173729-004                  | Soil   | 1        | g     | 50        | 50.000000 | 1          |    |          |          |          | ICAP     |              |          |
| QC259730   | SER   | of 173729-004                  | Soil   | .98      | g     | 50        | 51.020408 | 1          |    |          |          |          | ICAP     |              |          |

Prep Chemist:

Reviewed By:

Date:

Relinquished By:

Received By:

Date:

LIMS Batch #: 93374  
 Date Digested: 7/20/04  
 Digested by: W

## Digestion Method

☒ EPA 3050b  
☐ \_\_\_\_\_

BK 1971

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| Sample # and letter | Weight of Sample (g) | Final Volume (mL) | Filtered? (y/n) | Comments     |
|---------------------|----------------------|-------------------|-----------------|--------------|
| BK-QC 259725        | Ø                    | 50.0              | Y               |              |
| * BS 259726         | ↓                    |                   |                 |              |
| * BS 259727         | ↓                    |                   |                 |              |
| * 173724-001 MS A   | 1.07                 |                   |                 |              |
| * ↓ 004 MS A        | 1.00                 |                   |                 |              |
| 173724-002          | 1.15                 |                   |                 | comp 8 jars. |
| 173727-001 A        | 1.00                 |                   |                 |              |
| 173729-001 A        | 1.26                 |                   |                 |              |
| ↓ 002               | 1.15                 |                   |                 |              |
| 10 ↓ 003            | 1.03                 |                   |                 |              |
| ↓ 004 A             | 0.98                 |                   |                 | MISS         |
| ↓ 005               | 1.00                 |                   |                 |              |
| ↓ 007               | 1.05                 |                   |                 |              |
| ↓ 008               | 0.98                 |                   |                 |              |
| 15 173730-001 A     | 1.24                 |                   |                 |              |
| ↓ 002               | 1.04                 |                   |                 |              |
| ↓ 003               | 1.51                 |                   |                 |              |
| ↓ 004               | 0.98                 |                   |                 |              |
| ↓ 005               | 1.16                 |                   |                 |              |
| 20 173741-001 A     | 1.03                 |                   |                 |              |
| 173746-005          | 1.08                 |                   |                 | comp 1-4     |
| ↓ 010               | 0.90                 |                   |                 | 6-9          |
| ↓ 015               | 1.02                 |                   |                 | 11-14        |
|                     |                      |                   |                 |              |
|                     |                      |                   |                 |              |
|                     |                      |                   |                 |              |

0.5 mL of spike solution was added to all spikes

digestion temperature (90 - 95 degrees C)

1:1 HNO<sub>3</sub>

concentrated HNO<sub>3</sub>

3mL 30% hydrogen peroxide

concentrated HCl

☒ filtered thru' Whatman # 541

Reagent ID or LIMS # Initials / Date

|                 |          |
|-----------------|----------|
| 0755171*        | VV8/2/04 |
| 0755172*        |          |
| 95°C            |          |
| A02056-072604   |          |
| A02056-JT Baker |          |
| 43287341-V.W.R  |          |
| A16039-JT Baker |          |
| E1566057        |          |

W. M. Veiga 8/2/04  
 Extraction Chemist / Date

Continued from page 128  
 Continued on page   

W. M. Veiga 8/2/04  
 Reviewed by / Date

# Percent Moisture Summary Report

Batch: 93392  
 Date: 08/03/04  
 Method: CLP SOW 390  
 Analyst: RSM

| Sample        | Tare (g) | Wet (g) | Dry (g) | Percent Solids | Percent Moisture |
|---------------|----------|---------|---------|----------------|------------------|
| 173727-001    | 15.2294  | 22.4204 | 21.6453 | 89             | 11               |
| 173729-001    | 15.4317  | 22.4207 | 22.1932 | 97             | 3                |
| 173729-002    | 15.3271  | 22.2482 | 21.6695 | 92             | 8                |
| 173729-003    | 15.4943  | 22.4692 | 21.7962 | 90             | 10               |
| 173729-004    | 15.7100  | 22.3907 | 21.9146 | 93             | 7                |
| 173729-005    | 15.3473  | 22.4578 | 21.5786 | 88             | 12               |
| 173729-007    | 15.4846  | 22.6869 | 22.1945 | 93             | 7                |
| 173729-008    | 15.2227  | 22.3090 | 21.8210 | 93             | 7                |
| 173730-001    | 15.5157  | 22.4736 | 21.7048 | 89             | 11               |
| 173730-002    | 15.3593  | 22.4216 | 21.2084 | 83             | 17               |
| 173730-003    | 15.2170  | 22.5534 | 21.7561 | 89             | 11               |
| 173730-004    | 15.4820  | 22.3103 | 21.2718 | 85             | 15               |
| 173730-005    | 15.6487  | 22.7086 | 21.6918 | 86             | 14               |
| 173746-005    | 15.2929  | 22.7366 | 22.5775 | 98             | 2                |
| 173746-010    | 15.2803  | 22.5691 | 22.4162 | 98             | 2                |
| 173746-015    | 15.4570  | 22.4135 | 22.2273 | 97             | 3                |
| QC259805      | 15.3801  | 22.3421 | 22.1152 | 97             | 3                |
| of 173729-001 |          |         | RPD     | 0.0%           | 0.1%             |

# **APPENDIX B**

## **DataVal, Inc. Quality Control Summary Report**

**TO:** Brian Aubry, Geologica Inc.

August 11, 2004

**FROM:** Donna Breaux, DataVal, Inc.

Geologica Inc. Project No. Presidio.001

**QUALITY CONTROL SUMMARY REPORT FOR THE GA-9 STOCKPILE SITE, THE  
PRESIDIO OF SAN FRANCISCO, CA**

**LABORATORY:** Curtis & Tompkins, Berkeley, CA

**LABORATORY SAMPLE DELIVERY GROUP:** 173746

**SAMPLING DATE:** July 30, 2004

Data validation of a Level III laboratory data package was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan, April, 2001; the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Organic Data Review, October, 1999; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, July 2002.

The data were reviewed for holding times, blanks, initial calibrations, continuing calibration verification (CCV) standards, laboratory control samples (LCS), surrogate recoveries, matrix spikes (MS), matrix spike duplicates (MSD), ICP interference check standards, ICP serial dilutions, and field duplicate samples.

**The following paragraphs highlight the essential findings of the data validation effort:**

**I. Total Petroleum Hydrocarbons - TPH-Gasoline Range (8015B)**

Overall, the data are usable as reported. Qualification was not required.

**A. Reporting Limits**

The laboratory reporting limit for TPH-gasoline in soil matrix samples met the project required reporting limit, with the following exception:

1. The reporting limits for all soils were raised due to dry weight correction.

**B. Holding Times**

Technical holding time criteria were met for all project samples.

**C. Blanks**

Target analytes were not observed in any laboratory method blanks associated with the project samples.

- D. Initial Calibration  
Initial calibration criteria were met for all calibration standards associated with the project samples.
- E. Continuing Calibration  
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.
- F. Matrix Spike/Matrix Spike Duplicate  
All QC criteria were met for the matrix spike and matrix spike duplicate associated with the project samples.
- G. Laboratory Control Samples  
All QC criteria were met for the laboratory control sample associated with the project samples.
- H. Surrogate Recoveries  
Surrogate spike recoveries met QC acceptance criteria for all project samples.

**II. Total Petroleum Hydrocarbons – TPH-Diesel/TPH-Motor Oil Range (8015B)**

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section H.

- A. Reporting Limits  
The laboratory reporting limits for TPH-diesel and TPH-motor oil in soil matrix samples met the project required reporting limits, with the following exception:
  - 1. The reporting limits for all soils were raised due to dry weight correction.
- B. Holding Times  
Technical holding time criteria were met for all project samples.
- C. Blanks  
Target analytes were not observed in any laboratory method blanks associated with the project samples.
- D. Initial Calibration  
Initial calibration criteria were met for all calibration standards associated with the project samples.
- E. Continuing Calibration  
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spike and matrix spike duplicate associated with the project samples, with the following exception:

1. The percent recoveries for diesel were outside the 65%-135% project acceptance criteria in the QC samples associated with QC batch 93369. The amount of diesel present in the parent sample was greater than four times the amount spiked, and the parent sample was associated with a site unrelated to the project site. The quality and usability of the project samples were not affected by this failed QC parameter.

G. Laboratory Control Samples

All QC criteria were met for the laboratory control sample associated with all project samples.

H. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. The percent recoveries for surrogate hexacosane were outside the 65%-135% project acceptance criteria in samples GA9SSCOMP501-504 at 56% and DUP073004COMP501-504 at 62%. The non-detected results for TPH-diesel and motor oil were qualified as estimated (UJ) in these samples.

See Table 2 of this report for a summary of qualifications due to surrogate recovery failure.

III. **Aromatic Volatiles (BTEX) by GC (8021B)**

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits

The laboratory reporting limits for benzene, toluene, ethylbenzene and xylenes in soil matrix samples met the project required reporting limits, with the following exception:

1. The reporting limits for all soils were raised due to dry weight correction.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Blanks

Target analytes were not observed in any laboratory blanks associated with all project samples.

D. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.



- E. Continuing Calibration  
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.
- F. Matrix Spike/Matrix Spike Duplicate  
A matrix spike and matrix spike duplicate were not analyzed with the project samples for this method.
- G. Laboratory Control Samples  
All QC criteria were met for the laboratory control sample associated with the project samples.
- H. Surrogate Recoveries  
Surrogate spike recoveries met QC acceptance criteria for all project samples.

#### IV. Organochlorine Pesticides (8081A)

Overall, the data are usable as reported. Qualification was not required.

- A. Reporting Limits  
The laboratory reporting limits for pesticides met the project required reporting limits, with the following exceptions:
  - 1. The reporting limits for all soils were raised due to dry weight correction.
  - 2. The laboratory reporting limit for toxaphene did not meet the project required reporting limit listed in Table 2-6.5-1 of the QAPP. The laboratory reported 60 ug/kg for toxaphene. The project required reporting limit was 40 ug/kg.
- B. Holding Times  
Technical holding time criteria were met for all project samples.
- C. Blanks  
Target analytes were not observed in any laboratory method blanks associated with the project samples.
- D. Initial Calibration  
Initial calibration criteria were met for all calibration standards associated with the project samples. When data from two columns was presented and one had acceptable percent relative standard deviations and the other did not, it was assumed that the column in control was used by the laboratory for reporting.
- E. Continuing Calibration  
Continuing calibration criteria were met for all continuing calibration verification standards associated with the project samples.

- F. Surrogate Recoveries  
Surrogate spike recoveries met QC acceptance criteria for all project samples.
  - G. Laboratory Control Samples  
All QC criteria were met for the laboratory control sample associated with the project samples.
  - H. Matrix Spike/Matrix Spike Duplicate  
A matrix spike and matrix spike duplicate were not analyzed with the project samples for this method.
  - I. Performance Evaluation Mix (PEM) Check Standards  
All PEM check standards met the project degradation criteria of 20% for endrin and 4,4'-DDT.
- V. **Polychlorinated Biphenyls (PCBs) (8082)**  
Overall, the data are usable as reported. Qualification was not required.
- A. Reporting Limits  
The laboratory reporting limits for PCBs in soil matrix samples met the project required reporting limits, with the following exception:
    - 1. The reporting limits for all soils were raised due to dry weight correction.
  - B. Holding Times  
Technical holding time criteria were met for all project samples.
  - C. Blanks  
Target analytes were not observed in any laboratory method blanks associated with the project samples.
  - D. Initial Calibration  
Initial calibration criteria were met for all calibration standards associated with the project samples.
  - E. Continuing Calibration  
Continuing calibration criteria were met for all continuing calibration verification standards associated with the project samples.
  - F. Surrogate Recoveries  
Surrogate spike recoveries met QC acceptance criteria for all project samples.
  - G. Laboratory Control Samples  
All QC criteria were met for the laboratory control samples associated with the project samples.

H. Matrix Spike/Matrix Spike Duplicate

A matrix spike and matrix spike duplicate were not analyzed with the project samples for this method.

VI. **Total Lead (6010B)**

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits

The laboratory reporting limit for lead in soil matrix samples met the project required reporting limit, with the following exception:

1. The reporting limits for all soils were raised due to dry weight correction.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Blanks

Target analytes were not observed in the laboratory method blank associated with the project samples.

D. Initial and Continuing Calibrations

All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spike and matrix spike duplicate associated with the project samples.

F. Laboratory Control Samples

All QC criteria were met for the laboratory control sample associated with the project samples.

G. ICP Interference Check Standards

All QC criteria were met for the ICP interference check standards associated with the project samples.

H. ICP Serial Dilution

All QC criteria were met for the ICP serial dilutions associated with the project samples.

**The following paragraphs highlight the essential findings of the field duplicate samples:**

Field duplicate precision was evaluated by calculating the relative percent difference (RPD) between detected results in the original sample and its associated duplicate. The control limit used for field duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than twice the reporting limit for those analytes that were at or near the detection limit. One soil sample was collected in duplicate for the GA-9 Stockpile sampling event.

| <b>Project Sample<br/>Primary ID</b> | <b>Lab Sample<br/>ID</b> | <b>Project Sample<br/>Duplicate ID</b> | <b>Lab Sample<br/>ID</b> |
|--------------------------------------|--------------------------|--|--------------------------|
| GA9SSCOMP501-504                     | 173746-005               | DUP073004COMP501-504                   | 173746-010               |

The attached Table 3 summarizes the field duplicate sample results. The detected results of the original sample and the associated duplicate sample were compared and the calculated RPDs reported.

All RPDs met the 50 percent (or +/- 2XRL) precision control limit requirement.

**SUMMARY**

The attached Table 1 lists the project samples and the respective analyses that were included in the data validation effort. The attached Table 2 summarizes the data qualifications required for the project samples for each test method included in the data package. The attached Table 3 summarizes the field duplicate sample results.

**USABILITY**

The quality control criteria were reviewed, and other than those discussed above, all criteria were met and the data are considered acceptable. Estimated sample results (J/UJ) are usable only for limited purposes. Based upon the cursory data validation, all other results are considered valid and usable for all purposes.

**VALIDATION QUALIFIERS IDENTIFICATION**

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October, 1999.

- U      The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J      The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. *A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.*
- N      The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ     The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ     The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R      The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

**Table 1**  
**Sample Summary**  
**GA-9 Stockpile Site**  
**The Presidio of San Francisco, CA**

| Site Sample ID       | Lab Sample ID | Date Sampled | Analyses   | Sample Type |
|----------------------|---------------|--------------|--|-------------|
| GA9SSCOMP501-504     | 173746-005    | 30-Jul-04    | TPH-Gasoline (8015B), TPH-Diesel/MO (8015B), BTEX (8021B), Pesticides (8081A), PCBs (8082), Total Lead (6010B) | Soil (1)    |
| DUP073004COMP501-504 | 173746-010    | 30-Jul-04    | TPH-Gasoline (8015B), TPH-Diesel/MO (8015B), BTEX (8021B), Pesticides (8081A), PCBs (8082), Total Lead (6010B) | FD (1)      |
| GA9SSCOMP505-508     | 173746-015    | 30-Jul-04    | TPH-Gasoline (8015B), TPH-Diesel/MO (8015B), BTEX (8021B), Pesticides (8081A), PCBs (8082), Total Lead (6010B) | Soil        |

**TPH:** Total Petroleum Hydrocarbons

**MO:** Motor Oil

**BTEX:** Benzene, toluene, ethylbenzene, xylenes

**PCBs:** Polychlorinated Biphenyls

**FD:** Field duplicate of previous numbered sample, (1), (2), etc.

**Table 2**  
**Qualified Data Summary**  
**GA-9 Stockpile Site**  
**The Presidio of San Francisco, CA**

| <b>Sample ID</b>     | <b>Lab ID</b> | <b>Analysis Method</b> | <b>Compound</b> | <b>CAS Number</b> | <b>Qualifier</b> | <b>Reason</b>                      |
|----------------------|---------------|------------------------|-----------------|-------------------|------------------|------------------------------------|
| GA9SSCOMP501-504     | 173746-005    | 8015B                  | TPH-Diesel      | 68334-30-5        | UJ               | Surrogate percent recovery failure |
| GA9SSCOMP501-504     | 173746-005    | 8015B                  | TPH-Motor oil   | 0                 | UJ               | Surrogate percent recovery failure |
| DUP073004COMP501-504 | 173746-010    | 8015B                  | TPH-Diesel      | 68334-30-5        | UJ               | Surrogate percent recovery failure |
| DUP073004COMP501-504 | 173746-010    | 8015B                  | TPH-Motor oil   | 0                 | UJ               | Surrogate percent recovery failure |

**UJ:** The quantitation limit is considered an estimated value for this non-detected analyte.

**Table 3**  
**Summary of Field Duplicates**  
**GA-9 Stockpile Site**  
**The Presidio of San Francisco, CA**

| Original Sample # | Lab ID     | Matrix | Compound      | Orig. Result | Duplicate Sample #   | Lab ID     | Dup. Result | RPD |
|-------------------|------------|--------|---------------|--------------|----------------------|------------|-------------|-----|
| GA9SSCOMP501-504  | 173746-005 | Soil   | TPH-Gasoline  | ND           | DUP073004COMP501-504 | 173746-010 | ND          | NA  |
| GA9SSCOMP501-504  | 173746-005 | Soil   | TPH-Diesel    | ND           | DUP073004COMP501-504 | 173746-010 | ND          | NA  |
| GA9SSCOMP501-504  | 173746-005 | Soil   | TPH-Motor oil | ND           | DUP073004COMP501-504 | 173746-010 | ND          | NA  |
| GA9SSCOMP501-504  | 173746-005 | Soil   | BTEX          | ND           | DUP073004COMP501-504 | 173746-010 | ND          | NA  |
| GA9SSCOMP501-504  | 173746-005 | Soil   | Pesticides    | ND           | DUP073004COMP501-504 | 173746-010 | ND          | NA  |
| GA9SSCOMP501-504  | 173746-005 | Soil   | PCBs          | ND           | DUP073004COMP501-504 | 173746-010 | ND          | NA  |
| GA9SSCOMP501-504  | 173746-005 | Soil   | Total Lead    | 1.8 mg/kg    | DUP073004COMP501-504 | 173746-010 | 1.6 mg/kg   | 12% |

**ND:** Non-detected

**NC:** Not calculated. The absolute difference between the sample result and the duplicate sample result is less than the reporting limit.

**NA:** Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 177403

Treadwell & Rollo  
555 Montgomery Street  
San Francisco, CA 94111

Project#: 2893.12  
Location: Presidio BB3

| <u>Sample ID</u> | <u>Lab ID</u> |
|------------------|---------------|
| BB3-RA/B-A       | 177403-001    |
| BB3-RA/B-B       | 177403-002    |
| BB3-RA/B-C       | 177403-003    |
| BB3-RA/B-D       | 177403-004    |
| COMP BB3-RA/B    | 177403-005    |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: \_\_\_\_\_

Operations Manager

Date: \_\_\_\_\_

2/16/05

Signature: \_\_\_\_\_

Project Manager

Date: \_\_\_\_\_

2/14/05

## CASE NARRATIVE

Laboratory number: 177403  
Client: Treadwell & Rollo  
Project: 2893.12  
Location: Presidio BB3  
Request Date: 01/28/05  
Samples Received: 01/28/05

This hardcopy data package contains sample and QC results for one four-point soil composite, requested for the above referenced project on 01/28/05. The samples were received intact at ambient temperature.

### TPH-Extractables by GC (EPA 8015B):

Low recovery was observed for diesel C12-C24 in the MSD for batch 98754; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

### Metals (EPA 6010B):

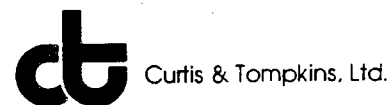
Low recoveries were observed for a number of analytes in the MS/MSD of COMP BB3-RA/B (lab # 177403-005); the BS/BSD were within limits, and the associated RPDs were within limits. Response exceeding the instrument's linear range was observed for iron in the MS/MSD of COMP BB3-RA/B (lab # 177403-005). Low recovery was observed for antimony, barium, molybdenum, and zinc in the post digest spike for batch batch 98751. No other analytical problems were encountered.

### Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

## Chain of Custody

SOP Volume: Client Services  
Section: 1.1.2  
Page: 1 of 1  
Effective Date: 10-May-99  
Revision: 1 Number 1 of 3  
Filename: F:\QC\Forms\QC\Cooler.wpd



## COOLER RECEIPT CHECKLIST

Login#: 177403 Date Received: 1-28-05 Number of Coolers: 1  
Client: Treadwell & Roll Project: 2893.12

A. Preliminary Examination Phase

- Date Opened: 1-28-05 By (print): Tray Windsor (sign) [Signature]
- Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO ☐  
If YES, enter carrier name and airbill number: \_\_\_\_\_
  - Were custody seals on outside of cooler?..... YES ☒ NO ☐  
How many and where? \_\_\_\_\_ Seal date: \_\_\_\_\_ Seal name: \_\_\_\_\_
  - Were custody seals unbroken and intact at the date and time of arrival?..... YES ☐ NO ☒ N/A
  - Were custody papers dry and intact when received?..... YES ☒ NO ☐
  - Were custody papers filled out properly (ink, signed, etc.)?..... YES ☒ NO ☐
  - Did you sign the custody papers in the appropriate place?..... YES ☒ NO ☐
  - Was project identifiable from custody papers?..... YES ☒ NO ☐  
If YES, enter project name at the top of this form.
  - If required, was sufficient ice used? Samples should be 2-6 degrees C. .... YES ☐ NO ☒  
Type of ice: None Temperature: Ambient - Received directly from the field

B. Login Phase

- Date Logged In: 1-28-05 By (print): Tray Windsor (sign) [Signature]
- Describe type of packing in cooler: Just the jars
  - Did all bottles arrive unbroken?..... YES ☒ NO ☐
  - Were labels in good condition and complete (ID, date, time, signature, etc.)?..... YES ☒ NO ☐
  - Did bottle labels agree with custody papers?..... YES ☒ NO ☐
  - Were appropriate containers used for the tests indicated?..... YES ☒ NO ☐
  - Were correct preservatives added to samples?..... YES ☐ NO ☒ N/A
  - Was sufficient amount of sample sent for tests indicated?..... YES ☒ NO ☐
  - Were bubbles absent in VOA samples? If NO, list sample Ids below..... YES ☐ NO ☒ N/A
  - Was the client contacted concerning this sample delivery?..... YES ☐ NO ☒  
If YES, give details below.
- Who was called? \_\_\_\_\_ By whom? \_\_\_\_\_ Date: \_\_\_\_\_

Additional Comments:

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### Total Extractable Hydrocarbons

|           |                   |           |              |
|-----------|-------------------|-----------|--------------|
| Lab #:    | 177403            | Location: | Presidio BB3 |
| Client:   | Treadwell & Rollo | Prep:     | SHAKER TABLE |
| Project#: | 2893.12           | Analysis: | EPA 8015B    |
| Field ID: | COMP BB3-RA/B     | Batch#:   | 98754        |
| Matrix:   | Soil              | Sampled:  | 01/28/05     |
| Units:    | mg/Kg             | Received: | 01/28/05     |
| Diln Fac: | 1.000             | Prepared: | 01/31/05     |

|         |            |                 |           |
|---------|------------|-----------------|-----------|
| Type:   | SAMPLE     | Moisture:       | 8%        |
| Lab ID: | 177403-005 | Analyzed:       | 02/14/05  |
| Basis:  | dry        | Cleanup Method: | EPA 3630C |

| Analyte           | Result | RL  |
|-------------------|--------|-----|
| Diesel C12-C24    | 220 H  | 1.1 |
| Motor Oil C24-C36 | 64 L   | 5.4 |

| Surrogate  | %REC | Limits |
|------------|------|--------|
| Hexacosane | 96   | 65-135 |

|         |             |                 |           |
|---------|-------------|-----------------|-----------|
| Type:   | BLANK       | Analyzed:       | 01/31/05  |
| Lab ID: | QC281095    | Cleanup Method: | EPA 3630C |
| Basis:  | as received |                 |           |

| Analyte           | Result | RL  |
|-------------------|--------|-----|
| Diesel C12-C24    | ND     | 1.0 |
| Motor Oil C24-C36 | ND     | 5.0 |

| Surrogate  | %REC | Limits |
|------------|------|--------|
| Hexacosane | 94   | 65-135 |

H= Heavier hydrocarbons contributed to the quantitation

L= Lighter hydrocarbons contributed to the quantitation

ND= Not Detected

RL= Reporting Limit

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# Chromatogram

Sample Name : 177403-005sg,98754

FileName : G:\GC17\CHA\045A009.RAW

Method : ATEH039.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 7 mV

Sample #: 98754

Date : 2/14/05 02:21 PM

Time of Injection: 2/14/05 01:54 PM

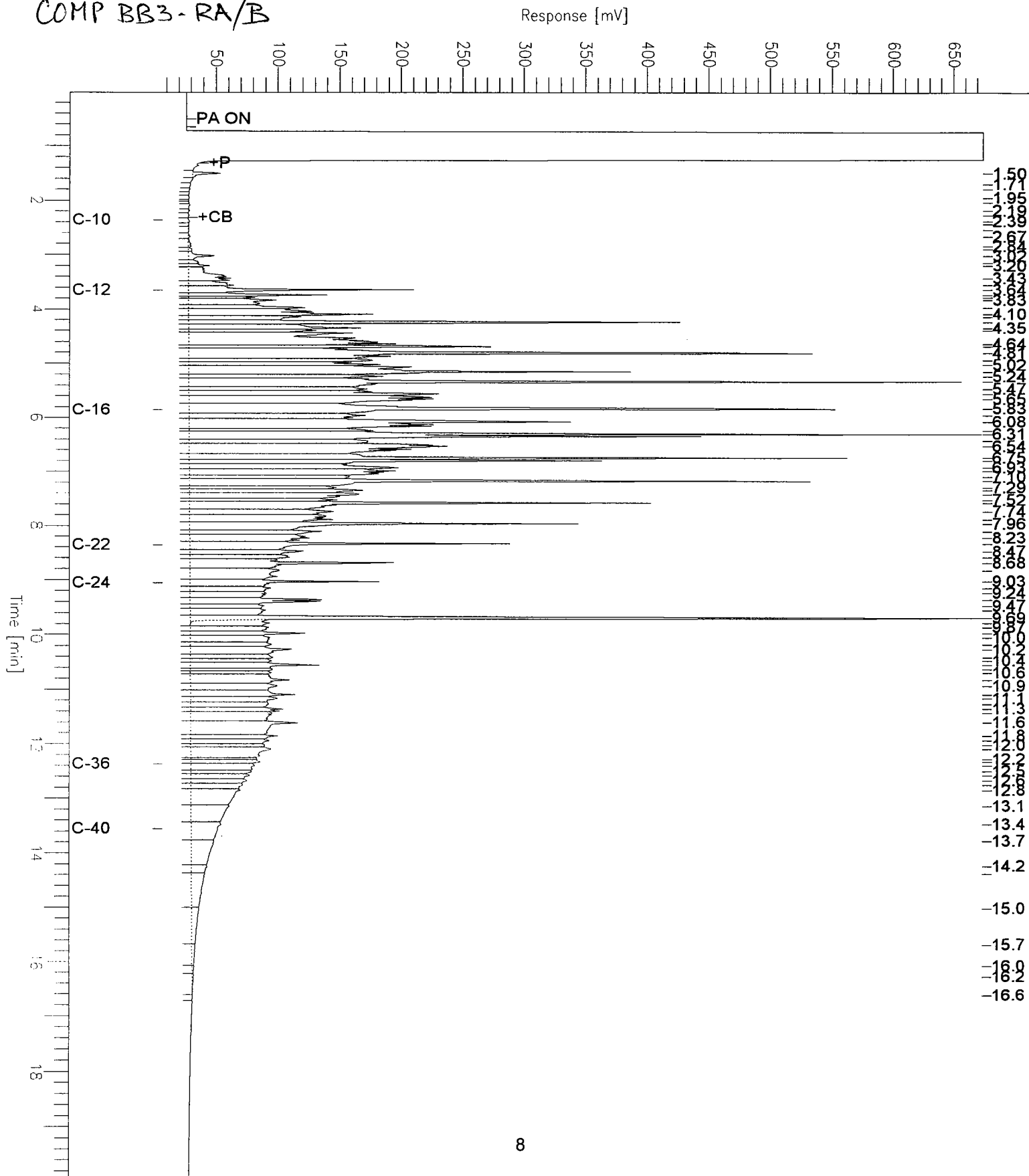
Low Point : 6.80 mV

Plot Scale: 667.8 mV

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High Point : 674.65 mV

COMP BB3-RA/B



# Chromatogram

Sample Name : ccv,05ws0171,ds1  
 FileName : G:\GC15\CHB\030B004.RAW  
 Method : BTEH031S.MTH  
 Start Time : 0.01 min  
 Scale Factor: 0.0

End Time : 19.99 min  
 Plot Offset: 23 mV

Sample #: 500mg/L

Date : 1/31/05 08:42 AM

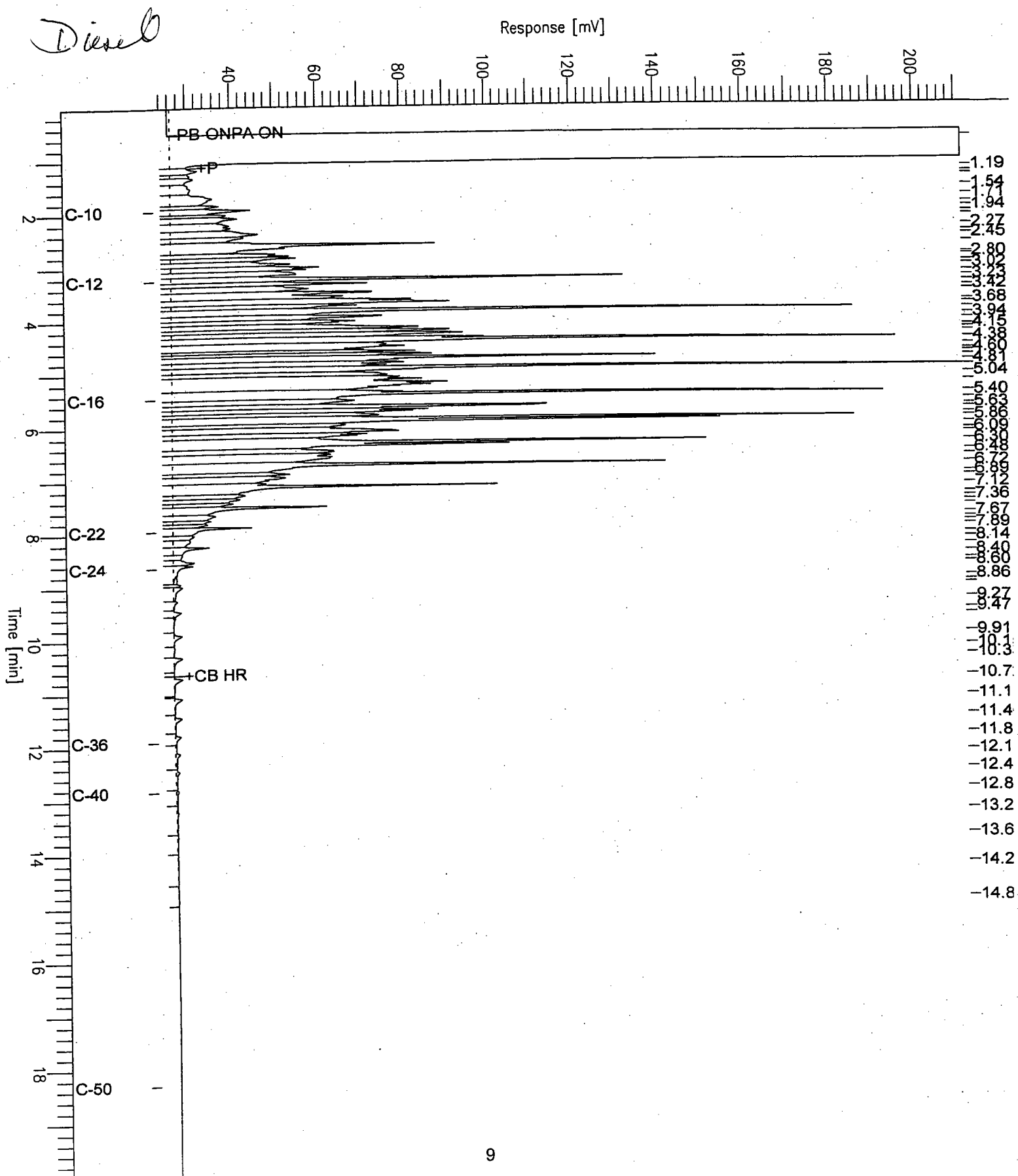
Time of Injection: 1/30/05 06:36 PM

Low Point : 22.57 mV

Plot Scale: 188.9 mV

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High Point : 211.46 mV



# Chromatogram

Sample Name : ccv,05ws0066,mo  
FileName : G:\GC15\CHB\030B003.RAW  
Method : BTEH031S.MTH  
Start Time : 0.01 min  
Scale Factor: 0.0

End Time : 19.99 min  
Plot Offset: 19 mV

Sample #: 500mg/L

Date : 1/31/05 08:40 AM

Time of Injection: 1/30/05 06:07 PM

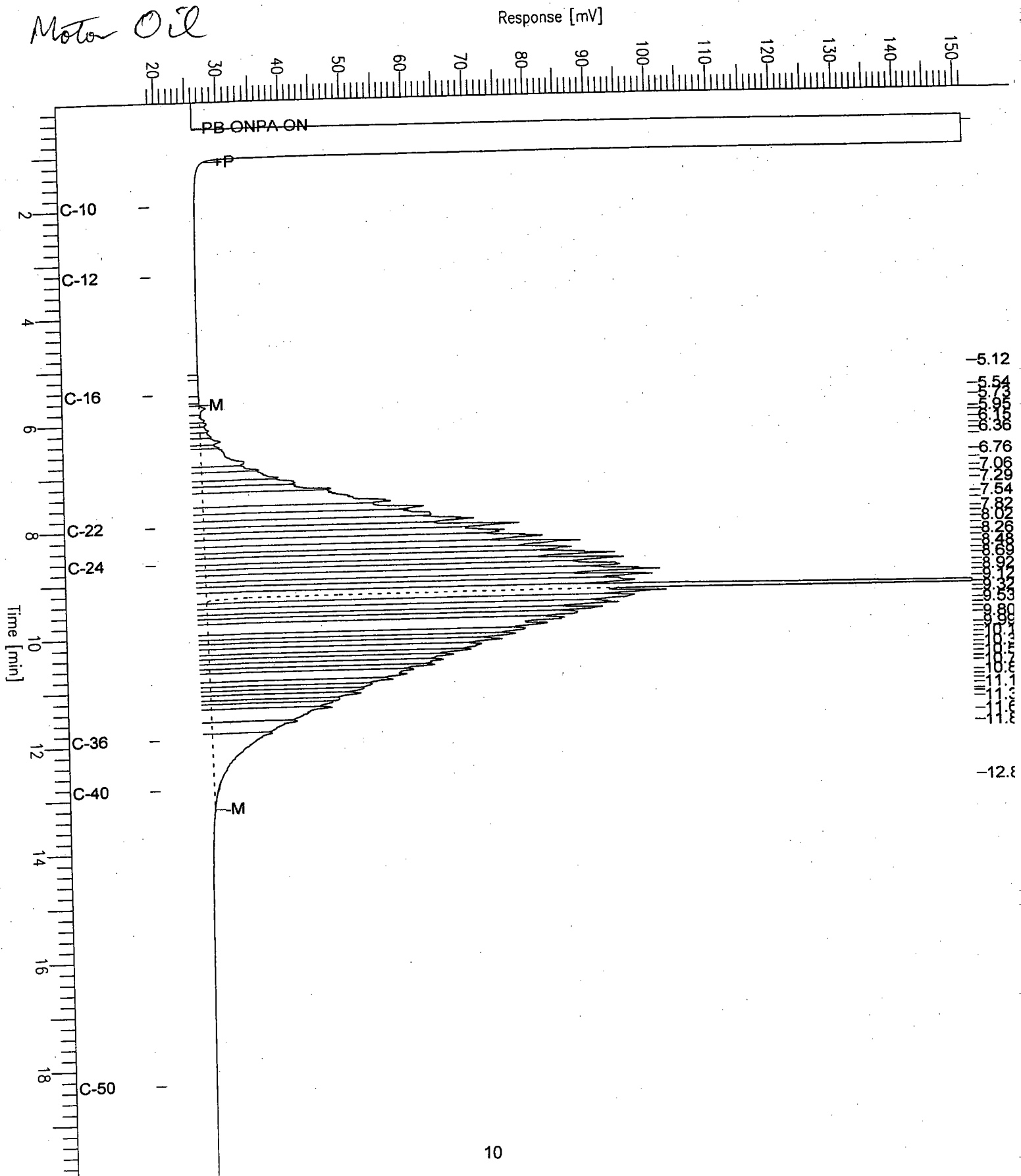
Low Point : 18.98 mV

Plot Scale: 132.2 mV

Page 1 of 1

06:07 PM

High Point : 151.22 mV





Batch QC Report

| Total Extractable Hydrocarbons |                   |           |              |
|--------------------------------|-------------------|-----------|--------------|
| Lab #:                         | 177403            | Location: | Presidio BB3 |
| Client:                        | Treadwell & Rollo | Prep:     | SHAKER TABLE |
| Project#:                      | 2893.12           | Analysis: | EPA 8015B    |
| Type:                          | LCS               | Diln Fac: | 1.000        |
| Lab ID:                        | QC281096          | Batch#:   | 98754        |
| Matrix:                        | Soil              | Prepared: | 01/31/05     |
| Units:                         | mg/Kg             | Analyzed: | 01/31/05     |
| Basis:                         | as received       |           |              |

Cleanup Method: EPA 3630C

| Analyte        | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C12-C24 | 49.96  | 60.77  | 122  | 65-135 |

| Surrogate  | %REC | Limits |
|------------|------|--------|
| Hexacosane | 94   | 65-135 |

## Batch QC Report

| Total Extractable Hydrocarbons |                   |           |              |
|--------------------------------|-------------------|-----------|--------------|
| Lab #:                         | 177403            | Location: | Presidio BB3 |
| Client:                        | Treadwell & Rollo | Prep:     | SHAKER TABLE |
| Project#:                      | 2893.12           | Analysis: | EPA 8015B    |
| Field ID:                      | ZZZZZZZZZZ        | Diln Fac: | 3.000        |
| MSS Lab ID:                    | 177390-004        | Batch#:   | 98754        |
| Matrix:                        | Soil              | Sampled:  | 01/27/05     |
| Units:                         | mg/Kg             | Received: | 01/27/05     |
| Basis:                         | as received       | Prepared: | 01/31/05     |

Type: MS Analyzed: 02/02/05  
Lab ID: QC281097

| Analyte        | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C12-C24 | 41.66      | 49.97  | 74.26  | 65   | 65-135 |

| Surrogate  | %REC | Limits |
|------------|------|--------|
| Hexacosane | 73   | 65-135 |

Type: MSD Analyzed: 02/01/05  
Lab ID: QC281098

| Analyte        | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C12-C24 | 49.98  | 66.87  | 50 * | 65-135 | 10  | 35  |

| Surrogate  | %REC | Limits |
|------------|------|--------|
| Hexacosane | 69   | 65-135 |

# INITIAL CALIBRATION REPORT FOR 177403 TEHM Soil Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH  
Calnum: 114491750001 Name: dsl Type: (normal) Date: 06-DEC-2004 12:48 Inj Vol (uL): 3

Calibration levels:

| # | Filename | Seqnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 341a003  | 114491750003 | ds110     | 06-DEC-2004 12:48 | 04WS1748  |
| 2 | 341a004  | 114491750004 | ds1100    | 06-DEC-2004 13:18 | 04WS1747  |
| 3 | 341a005  | 114491750005 | ds1250    | 06-DEC-2004 13:47 | 04WS1221  |
| 4 | 341a006  | 114491750006 | ds1500    | 06-DEC-2004 14:16 | 04WS1745  |
| 5 | 341a007  | 114491750007 | ds11000   | 06-DEC-2004 14:46 | 04WS1744  |
| 6 | 341a008  | 114491750008 | ds12500   | 06-DEC-2004 15:15 | 04WS1743  |
| 7 | 341a009  | 114491750009 | ds15000   | 06-DEC-2004 15:44 | 04WS1742  |

| Analyte        | L1    | L2    | L3    | L4    | L5    | L6    | L7    | Type X | a0 | a1       | a2 | units | avg   | %RSD | MoR^2 | NxRSD | Flags |
|----------------|-------|-------|-------|-------|-------|-------|-------|--------|----|----------|----|-------|-------|------|-------|-------|-------|
| Diesel C12-C24 | 18379 | 24186 | 27245 | 25337 | 24468 | 24098 | 23515 | AVRG R |    | 4.186E-5 |    | mg/L  | 23890 | 11   | 0.995 | 20    |       |
|                |       |       |       |       |       |       |       |        |    |          |    |       |       |      |       |       |       |

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Instid : GC11A Calname : dsl  
Calnum : 114491750001 Caldate : 06-DEC-2004 Caltype :

ICV 114491750011 (341a011) standards: 04WS2006

| Analyte        | Ch | ICV          | Seqnum      | Date   | Spiked Quant | Units | %D |
|----------------|----|--------------|-------------|--------|--------------|-------|----|
| Diesel C12-C24 | A  | 114491750011 | 06-DEC-2004 | 500.00 | 468.85       | mg/L  | -6 |

# INITIAL CALIBRATION REPORT FOR 177403 TEHM Soil Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH  
 Calnum: 114506134001 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 12:04 Inj Vol (uL): 3

Calibration levels:

| # | Filename | Seqnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 351a002  | 114506134002 | hex5      | 16-DEC-2004 12:04 | 04WS2042  |
| 2 | 351a003  | 114506134003 | hex10     | 16-DEC-2004 12:33 | 04WS2043  |
| 3 | 351a004  | 114506134004 | hex25     | 16-DEC-2004 13:02 | 04WS2044  |
| 4 | 351a005  | 114506134005 | hex50     | 16-DEC-2004 13:31 | 04WS2045  |
| 5 | 351a006  | 114506134006 | hex75     | 16-DEC-2004 14:00 | 04WS2046  |

| Analyte    | L1    | L2    | L3    | L4    | L5    | Type X | a0 | a1       | a2 | units | avg   | XRSD | MnR^2 | MxRSD | Flags |
|------------|-------|-------|-------|-------|-------|--------|----|----------|----|-------|-------|------|-------|-------|-------|
| Hexacosane | 29511 | 28377 | 29932 | 29897 | 29504 | AVRG R |    | 3.396E-5 |    | mg/L  | 29444 | 2    | 0.995 | 20    |       |

# INITIAL CALIBRATION REPORT FOR 177403 TEHM Soil Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MCH  
Calnum: 145035145001 Name: ds1cal Type: (normal) Date: 24-JAN-2005 12:48 Inj Vol (uL): 3

Calibration levels:

| # | Filename | Seqnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 024b006  | 145035145006 | ds110     | 24-JAN-2005 12:48 | 04WS2298  |
| 2 | 024b007  | 145035145007 | ds1100    | 24-JAN-2005 13:16 | 04WS2299  |
| 3 | 024b008  | 145035145008 | ds1250    | 24-JAN-2005 13:44 | 04WS2300  |
| 4 | 024b009  | 145035145009 | ds1500    | 24-JAN-2005 14:12 | 05WS0019  |
| 5 | 024b010  | 145035145010 | ds11000   | 24-JAN-2005 14:40 | 04WS2302  |
| 6 | 024b011  | 145035145011 | ds12500   | 24-JAN-2005 15:09 | 04WS2303  |
| 7 | 024b012  | 145035145012 | ds15000   | 24-JAN-2005 15:37 | 04WS2297  |

| Analyte        | L1    | L2    | L3    | L4    | L5    | L6    | L7    | Type X | a0 | a1       | a2 | units | avg   | MRSD | MR^2  | MRSD | Flags |
|----------------|-------|-------|-------|-------|-------|-------|-------|--------|----|----------|----|-------|-------|------|-------|------|-------|
| Diesel C12-C24 | 18620 | 23901 | 21918 | 19973 | 21115 | 20477 | 21050 | AVRG R |    | 4.760E-5 |    | mg/L  | 21008 | 8    | 0.995 | 20   |       |

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Instid : GC13B Calname : dslical  
Calnum : 145035145001 Caldate : 24-JAN-2005 Caltype :

ICV 145035145014 (024b014) standards: 04WS2006

| Analyte        | Ch | ICV          | Seqnum      | Date   | Spiked Quant | Units | %D  |
|----------------|----|--------------|-------------|--------|--------------|-------|-----|
| Diesel C12-C24 | B  | 145035145014 | 24-JAN-2005 | 500.00 | 449.31       | mg/L  | -10 |

INITIAL CALIBRATION REPORT FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MCH  
Calnum: 144505030003 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 00:39 Inj Vol (uL): 3

Calibration levels:

| # | Filename | Seqnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 350b017  | 144505030017 | hex5      | 16-DEC-2004 00:39 | 04WS2042  |
| 2 | 350b018  | 144505030018 | hex10     | 16-DEC-2004 01:07 | 04WS2043  |
| 3 | 350b019  | 144505030019 | hex25     | 16-DEC-2004 01:35 | 04WS2044  |
| 4 | 350b020  | 144505030020 | hex50     | 16-DEC-2004 02:04 | 04WS2045  |
| 5 | 350b026  | 144505030026 | hex75     | 16-DEC-2004 12:15 | 04WS2046  |

| Analyte    | L1    | L2    | L3    | L4    | L5    | Type X | a0 | a1       | a2 | units | avg   | %RSD | MnR^2 | MxRSD | Flags |
|------------|-------|-------|-------|-------|-------|--------|----|----------|----|-------|-------|------|-------|-------|-------|
| Hexacosane | 22429 | 20066 | 21474 | 22789 | 22529 | AVRG R |    | 4.575E-5 |    | mg/L  | 21858 | 5    | 0.995 | 20    |       |



# INITIAL CALIBRATION REPORT FOR 177403 TEHM Soil Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP  
 Calnum: 165007836001 Name: dsl Type: (normal) Date: 05-JAN-2005 16:55 Inj Vol (uL): 3

Calibration levels:

| # | Filename | Segment      | Sample  | Standard                   |
|---|----------|--------------|---------|----------------------------|
| 1 | 005b008  | 165007836008 | ds110   | 05-JAN-2005 16:55 04WS2298 |
| 2 | 005b009  | 165007836009 | ds1100  | 05-JAN-2005 17:24 04WS2299 |
| 3 | 005b010  | 165007836010 | ds1250  | 05-JAN-2005 17:53 04WS2300 |
| 4 | 005b011  | 165007836011 | ds1500  | 05-JAN-2005 18:22 05WS0019 |
| 5 | 005b012  | 165007836012 | ds11000 | 05-JAN-2005 18:51 04WS2302 |
| 6 | 005b013  | 165007836013 | ds12500 | 05-JAN-2005 19:19 04WS2303 |
| 7 | 005b014  | 165007836014 | ds15000 | 05-JAN-2005 19:48 04WS2297 |

| Analyte        | L1    | L2    | L3    | L4    | L5    | L6    | L7    | Type X | a0 | a1       | a2 | units | avg   | %RSD | MoR^2 | MoRSD | Flags |
|----------------|-------|-------|-------|-------|-------|-------|-------|--------|----|----------|----|-------|-------|------|-------|-------|-------|
| Diesel C12-C24 | 21264 | 22207 | 22415 | 21106 | 21750 | 21498 | 22485 | AVRG R |    | 4.583E-5 |    | mg/L  | 21818 | 3    | 0.995 | 20    |       |

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Instid : GC15B Calname : dsl  
Calnum : 165007836001 Caldate : 05-JAN-2005 Caltype :

ICV 165007836023 (005b023) standards: 04WS2006

| Analyte        | Ch | ICV          | Seqnum      | Date   | Spiked Quant | Units | %D |
|----------------|----|--------------|-------------|--------|--------------|-------|----|
| Diesel C12-C24 | B  | 165007836023 | 06-JAN-2005 | 500.00 | 460.74       | mg/L  | -8 |

# INITIAL CALIBRATION REPORT FOR 177403 TEHM Soil Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP  
Calnum: 165007836002 Name: mo Type: (normal) Date: 05-JAN-2005 20:46 Inj Vol (uL): 3

Calibration levels:

| # | Filename | Segnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 005b016  | 165007836016 | mo50      | 05-JAN-2005 20:46 | 04WS2172  |
| 2 | 005b017  | 165007836017 | mo250     | 05-JAN-2005 21:14 | 04WS2173  |
| 3 | 005b018  | 165007836018 | mo500     | 05-JAN-2005 21:43 | 04WS2174  |
| 4 | 005b019  | 165007836019 | mo1000    | 05-JAN-2005 22:12 | 04WS2175  |
| 5 | 005b020  | 165007836020 | mo2500    | 05-JAN-2005 22:41 | 04WS2176  |
| 6 | 005b021  | 165007836021 | mo5000    | 05-JAN-2005 23:10 | 04WS2169  |

| Analyte           | L1    | L2    | L3    | L4    | L5    | L6    | Type X | a0 | a1       | a2 | units | avg   | %RSD | Mmr^2 | MxRSD | Flags |
|-------------------|-------|-------|-------|-------|-------|-------|--------|----|----------|----|-------|-------|------|-------|-------|-------|
| Motor Oil C24-C36 | 17215 | 16461 | 16134 | 14940 | 12481 | 10170 | AVRG R |    | 6.865E-5 |    | mg/L  | 14567 | 19   | 0.995 | 20    |       |

# INITIAL CALIBRATION REPORT FOR 177403 TEHM Soil Curtis & Tompkins Laboratories

Instrument: GC15B      Gas Chromatograph #15 (Channel B) TEH      Reviewed By: MMP  
 Calnum: 165006306001      Name: 004ical      Type: (normal)      Date: 04-JAN-2005 12:08 Inj Vol (uL): 3

Calibration levels:

| # | Filename | Seqnum       | Samplenum | Analyzed          | Standards |
|---|----------|--------------|-----------|-------------------|-----------|
| 1 | 004b005  | 165006306005 | hex5      | 04-JAN-2005 12:08 | 04WS2042  |
| 2 | 004b006  | 165006306006 | hex10     | 04-JAN-2005 12:37 | 04WS2043  |
| 3 | 004b007  | 165006306007 | hex25     | 04-JAN-2005 13:06 | 04WS2044  |
| 4 | 004b008  | 165006306008 | hex50     | 04-JAN-2005 13:34 | 04WS2045  |
| 5 | 004b009  | 165006306009 | hex75     | 04-JAN-2005 14:03 | 04WS2046  |

| Analyte    | L1    | L2    | L3    | L4    | L5    | Type X | a0 | a1       | a2 | units | avg   | %RSD | Min   | %2 | Max | RSD | Flags |
|------------|-------|-------|-------|-------|-------|--------|----|----------|----|-------|-------|------|-------|----|-----|-----|-------|
| Hexacosane | 27389 | 26541 | 25481 | 24701 | 25964 | AVRG R |    | 3.844E-5 |    | mg/L  | 26015 | 4    | 0.995 | 20 |     |     |       |

CONTINUING CALIBRATION SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       | SpkAmt | QntAmt | Units | %D | Max | %D | Flags |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|----|-----|----|-------|
|        |    |              |                   |              |             | RF/CF | RF/CF |        |        |       |    |     |    |       |
| GC11A  | A  | 115045274003 | 31-JAN-2005 11:32 | 114491750001 | 06-DEC-2004 | 23890 | 26030 | 1000.0 | 1089.6 | mg/L  | 9  | 15  |    |       |
| GC11A  | A  | 115045274021 | 31-JAN-2005 20:32 | 114491750001 | 06-DEC-2004 | 23890 | 26402 | 250.00 | 276.30 | mg/L  | 11 | 15  |    |       |
| GC13B  | B  | 145046706003 | 01-FEB-2005 11:22 | 145035145001 | 24-JAN-2005 | 21008 | 19754 | 500.00 | 470.17 | mg/L  | -6 | 15  |    |       |
| GC13B  | B  | 145046706008 | 01-FEB-2005 16:57 | 145035145001 | 24-JAN-2005 | 21008 | 19735 | 1000.0 | 939.42 | mg/L  | -6 | 15  |    |       |
| GC13B  | B  | 145048106003 | 02-FEB-2005 10:42 | 145035145001 | 24-JAN-2005 | 21008 | 19787 | 500.00 | 470.94 | mg/L  | -6 | 15  |    |       |
| GC13B  | B  | 145048106009 | 02-FEB-2005 13:58 | 145035145001 | 24-JAN-2005 | 21008 | 19213 | 1000.0 | 914.56 | mg/L  | -9 | 15  |    |       |
| GC15B  | B  | 165044229048 | 31-JAN-2005 15:43 | 165007836001 | 05-JAN-2005 | 21818 | 21704 | 250.00 | 248.69 | mg/L  | -1 | 15  |    |       |
| GC15B  | B  | 165044229063 | 01-FEB-2005 00:06 | 165007836001 | 05-JAN-2005 | 21818 | 23360 | 1000.0 | 1070.7 | mg/L  | 7  | 15  |    |       |
| GC15B  | B  | 165044229079 | 01-FEB-2005 07:51 | 165007836001 | 05-JAN-2005 | 21818 | 22094 | 250.00 | 253.17 | mg/L  | 1  | 15  |    |       |
| GC15B  | B  | 165044229093 | 01-FEB-2005 16:28 | 165007836001 | 05-JAN-2005 | 21818 | 22819 | 1000.0 | 1045.9 | mg/L  | 5  | 15  |    |       |

CONTINUING CALIBRATION SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       | SpkAmt | QntAmt | Units | %D | Max | %D | Flags |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|----|-----|----|-------|
|        |    |              |                   |              |             | RF/CF | RF/CF |        |        |       |    |     |    |       |
| GC15B  | B  | 165044229049 | 31-JAN-2005 16:11 | 165007836002 | 05-JAN-2005 | 14567 | 15542 | 500.00 | 533.48 | mg/L  | 7  | 15  |    |       |
| GC15B  | B  | 165044229064 | 01-FEB-2005 00:35 | 165007836002 | 05-JAN-2005 | 14567 | 15764 | 500.00 | 541.10 | mg/L  | 8  | 15  |    |       |
| GC15B  | B  | 165044229080 | 01-FEB-2005 08:20 | 165007836002 | 05-JAN-2005 | 14567 | 16613 | 500.00 | 570.24 | mg/L  | 14 | 15  |    |       |
| GC15B  | B  | 165044229094 | 01-FEB-2005 16:57 | 165007836002 | 05-JAN-2005 | 14567 | 14898 | 500.00 | 511.37 | mg/L  | 2  | 15  |    |       |

CONTINUING CALIBRATION SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Analyte: Hexacosane

| Instid | Ch | Seqnum       | Injected          | Calnum       | Caldate     | Avg   |       | SpkAmt | QntAmt | Units | %D Max | %D Flags |
|--------|----|--------------|-------------------|--------------|-------------|-------|-------|--------|--------|-------|--------|----------|
|        |    |              |                   |              |             | RF/CF | RF/CF |        |        |       |        |          |
| GC11A  | A  | 115045274003 | 31-JAN-2005 11:32 | 114506134001 | 16-DEC-2004 | 29444 | 31795 | 50.000 | 53.992 | mg/L  | 8      | 15       |
| GC11A  | A  | 115045274019 | 31-JAN-2005 19:30 | 114506134001 | 16-DEC-2004 | 29444 | 32190 | 50.000 | 54.663 | mg/L  | 9      | 15       |
| GC13B  | B  | 145046706003 | 01-FEB-2005 11:22 | 144505030003 | 16-DEC-2004 | 21858 | 19729 | 50.000 | 45.130 | mg/L  | -10    | 15       |
| GC13B  | B  | 145046706008 | 01-FEB-2005 16:57 | 144505030003 | 16-DEC-2004 | 21858 | 22854 | 50.000 | 52.280 | mg/L  | 5      | 15       |
| GC13B  | B  | 145048106003 | 02-FEB-2005 10:42 | 144505030003 | 16-DEC-2004 | 21858 | 18906 | 50.000 | 43.248 | mg/L  | -14    | 15       |
| GC13B  | B  | 145048106008 | 02-FEB-2005 13:22 | 144505030003 | 16-DEC-2004 | 21858 | 21234 | 50.000 | 48.573 | mg/L  | -3     | 15       |
| GC15B  | B  | 165044229048 | 31-JAN-2005 15:43 | 165006306001 | 04-JAN-2005 | 26015 | 28289 | 50.000 | 54.370 | mg/L  | 9      | 15       |
| GC15B  | B  | 165044229063 | 01-FEB-2005 00:06 | 165006306001 | 04-JAN-2005 | 26015 | 28445 | 50.000 | 54.670 | mg/L  | 9      | 15       |
| GC15B  | B  | 165044229079 | 01-FEB-2005 07:51 | 165006306001 | 04-JAN-2005 | 26015 | 28765 | 50.000 | 55.285 | mg/L  | 11     | 15       |
| GC15B  | B  | 165044229093 | 01-FEB-2005 16:28 | 165006306001 | 04-JAN-2005 | 26015 | 27287 | 50.000 | 52.444 | mg/L  | 5      | 15       |

# SEQUENCE SUMMARY FOR 177403 TEHM Soil Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type   | Sample     | Batch   | Matrix | Analyzed    | IDF   | PDF  | IOC     | SPK | uL | Std | Used | >IR              |
|-----|----------|--------|------------|---------|--------|-------------|-------|------|---------|-----|----|-----|------|------------------|
| 001 | 341a001  | X      | primer     |         |        | 06-DEC-2004 | 11:50 | 1.0  |         |     |    |     |      |                  |
| 002 | 341a002  | X      | ib         |         |        | 06-DEC-2004 | 12:19 | 1.0  |         |     |    |     |      |                  |
| 003 | 341a003  | ICAL   | ds110      |         |        | 06-DEC-2004 | 12:48 | 1.0  | 1.0     |     |    | 1   |      |                  |
| 004 | 341a004  | ICAL   | ds1100     |         |        | 06-DEC-2004 | 13:18 | 1.0  | 1.0     |     |    | 2   |      |                  |
| 005 | 341a005  | ICAL   | ds1250     |         |        | 06-DEC-2004 | 13:47 | 1.0  | 1.0     |     |    | 3   |      |                  |
| 006 | 341a006  | ICAL   | ds1500     |         |        | 06-DEC-2004 | 14:16 | 1.0  | 1.0     |     |    | 4   |      |                  |
| 007 | 341a007  | ICAL   | ds11000    |         |        | 06-DEC-2004 | 14:46 | 1.0  | 1.0     |     |    | 5   |      |                  |
| 008 | 341a008  | ICAL   | ds12500    |         |        | 06-DEC-2004 | 15:15 | 1.0  | 1.0     |     |    | 6   |      |                  |
| 009 | 341a009  | ICAL   | ds15000    |         |        | 06-DEC-2004 | 15:44 | 1.0  | 1.0     |     |    | 7   |      |                  |
| 010 | 341a010  | X      | ib         |         |        | 06-DEC-2004 | 16:14 | 1.0  |         |     |    |     |      |                  |
| 011 | 341a011  | ICV    | ds1        |         |        | 06-DEC-2004 | 16:43 | 1.0  | 1.0     |     |    | 8   |      |                  |
| 012 | 341a012  | CCV    | ds1        |         |        | 06-DEC-2004 | 17:13 | 1.0  | 1.0     |     |    | 9   |      |                  |
| 013 | 341a013  | CCV    | mo         |         |        | 06-DEC-2004 | 17:42 | 1.0  | 1.0     |     |    | 10  |      |                  |
| 014 | 341a014  | SAMPLE | 176268-029 | 97153   | Water  | 06-DEC-2004 | 18:45 | 1.0  | 0.005   |     |    | 3   |      |                  |
| 015 | 341a015  | SAMPLE | 176363-015 | S 97153 | Water  | 06-DEC-2004 | 19:14 | 1.0  | 0.005   |     |    | 3   |      |                  |
| 016 | 341a016  | SAMPLE | 176363-012 | S 97153 | Water  | 06-DEC-2004 | 19:43 | 1.0  | 0.005   |     |    | 3   |      |                  |
| 017 | 341a017  | SAMPLE | 176363-009 | S 97153 | Water  | 06-DEC-2004 | 20:13 | 1.0  | 0.005   |     |    | 3   |      |                  |
| 018 | 341a018  | SAMPLE | 176363-006 | S 97153 | Water  | 06-DEC-2004 | 20:42 | 1.0  | 0.005   |     |    | 3   |      |                  |
| 019 | 341a019  | SAMPLE | 176363-003 | S 97153 | Water  | 06-DEC-2004 | 21:11 | 1.0  | 0.005   |     |    | 3   |      |                  |
| 020 | 341a020  | SAMPLE | 176268-012 | 97155   | Soil   | 06-DEC-2004 | 21:41 | 1.0  | 0.1001  |     |    | 3   |      |                  |
| 021 | 341a021  | SAMPLE | 176268-009 | 97155   | Soil   | 06-DEC-2004 | 22:10 | 1.0  | 0.09915 |     |    | 3   |      |                  |
| 022 | 341a022  | SAMPLE | 176268-015 | 97155   | Soil   | 06-DEC-2004 | 22:40 | 1.0  | 0.0995  |     |    | 3   |      |                  |
| 023 | 341a023  | SAMPLE | 176341-001 | 97146   | Soil   | 06-DEC-2004 | 23:09 | 50.0 | 0.1000  |     |    | 3   |      | 1:BUNKC:=5196.67 |
| 024 | 341a024  | CCV    | ds1        |         |        | 06-DEC-2004 | 23:38 | 1.0  | 1.0     |     |    | 11  |      |                  |
| 025 | 341a025  | CCV    | mo         |         |        | 07-DEC-2004 | 00:07 | 1.0  | 1.0     |     |    | 12  |      |                  |
| 026 | 341a026  | X      | CCV        |         |        | 07-DEC-2004 | 00:37 | 1.0  |         |     |    | 11  |      |                  |
| 027 | 341a027  | SAMPLE | 176268-010 | 97155   | Soil   | 07-DEC-2004 | 01:06 | 2.0  | 0.09992 |     |    | 3   |      |                  |
| 028 | 341a028  | SAMPLE | 176268-013 | 97155   | Soil   | 07-DEC-2004 | 01:36 | 1.0  | 0.09917 |     |    | 3   |      |                  |
| 029 | 341a029  | SAMPLE | 176268-017 | 97155   | Soil   | 07-DEC-2004 | 02:06 | 5.0  | 0.09976 |     |    | 3   |      |                  |
| 030 | 341a030  | SAMPLE | 176268-002 | 97146   | Soil   | 07-DEC-2004 | 02:35 | 1.0  | 0.09911 |     |    | 3   |      |                  |
| 031 | 341a031  | SAMPLE | 176268-014 | 97155   | Soil   | 07-DEC-2004 | 03:05 | 3.0  | 0.0994  |     |    | 3   |      |                  |

stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258



SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF   | PDF  | IOC     | SPK | uL | Std | Used | >LR               |
|-----|----------|--------|------------|-------|--------|-------------|-------|------|---------|-----|----|-----|------|-------------------|
| 032 | 341a032  | SAMPLE | 176402-001 | 97155 | Soil   | 07-DEC-2004 | 03:35 | 5.0  | 0.1007  | 2   | 1  | 3   |      | 10:BUNKC:=37347.2 |
| 033 | 341a033  | SAMPLE | 176268-001 | 97146 | Soil   | 07-DEC-2004 | 04:04 | 2.0  | 0.1001  |     |    | 3   |      |                   |
| 034 | 341a034  | SAMPLE | 176402-002 | 97155 | Soil   | 07-DEC-2004 | 04:34 | 10.0 | 0.1008  |     |    | 3   |      | 1:BUNKC:=15515.6  |
| 035 | 341a035  | SAMPLE | 176268-011 | 97155 | Soil   | 07-DEC-2004 | 05:03 | 20.0 | 0.1981  |     |    | 3   |      |                   |
| 036 | 341a036  | SAMPLE | 176268-016 | 97155 | Soil   | 07-DEC-2004 | 05:33 | 1.0  | 0.09968 |     |    | 3   |      |                   |
| 037 | 341a037  | CCV    | ds1        |       |        | 07-DEC-2004 | 06:02 | 1.0  | 1.0     |     |    | 3   | 13   |                   |
| 038 | 341a038  | CCV    | mo         |       |        | 07-DEC-2004 | 06:32 | 1.0  | 1.0     |     |    | 3   | 12   |                   |
| 039 | 341a039  | X      | ccv        |       |        | 07-DEC-2004 | 07:01 | 1.0  |         |     |    |     | 13   |                   |

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 144505030 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 15-DEC-2004  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type | Sample  | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Stds | Used | >LR |
|-----|----------|------|---------|-------|--------|-------------|-------|-----|-----|----|----|----|------|------|-----|
| 001 | 350b001  | X    | primer  |       |        | 15-DEC-2004 | 17:10 | 1.0 |     |    |    |    |      |      |     |
| 002 | 350b002  | X    | ib      |       |        | 15-DEC-2004 | 17:37 | 1.0 |     |    |    |    |      |      |     |
| 003 | 350b003  | ICAL | dsl10   |       |        | 15-DEC-2004 | 18:05 | 1.0 |     |    |    |    | 1    |      |     |
| 004 | 350b004  | ICAL | dsl100  |       |        | 15-DEC-2004 | 18:33 | 1.0 |     |    |    |    | 2    |      |     |
| 005 | 350b005  | ICAL | dsl250  |       |        | 15-DEC-2004 | 19:01 | 1.0 |     |    |    |    | 3    |      |     |
| 006 | 350b006  | ICAL | dsl1000 |       |        | 15-DEC-2004 | 19:29 | 1.0 |     |    |    |    | 4    |      |     |
| 007 | 350b007  | ICAL | dsl2500 |       |        | 15-DEC-2004 | 19:58 | 1.0 |     |    |    |    | 5    |      |     |
| 008 | 350b008  | ICAL | dsl5000 |       |        | 15-DEC-2004 | 20:26 | 1.0 |     |    |    |    | 6    |      |     |
| 009 | 350b009  | X    | ib      |       |        | 15-DEC-2004 | 20:54 | 1.0 |     |    |    |    |      |      |     |
| 010 | 350b010  | ICAL | mo50    |       |        | 15-DEC-2004 | 21:22 | 1.0 |     |    |    |    | 7    |      |     |
| 011 | 350b011  | ICAL | mo250   |       |        | 15-DEC-2004 | 21:50 | 1.0 |     |    |    |    | 8    |      |     |
| 012 | 350b012  | ICAL | mo500   |       |        | 15-DEC-2004 | 22:18 | 1.0 |     |    |    |    | 9    |      |     |
| 013 | 350b013  | ICAL | mo1000  |       |        | 15-DEC-2004 | 22:46 | 1.0 |     |    |    |    | 10   |      |     |
| 014 | 350b014  | ICAL | mo2500  |       |        | 15-DEC-2004 | 23:14 | 1.0 |     |    |    |    | 11   |      |     |
| 015 | 350b015  | ICAL | mo5000  |       |        | 15-DEC-2004 | 23:43 | 1.0 |     |    |    |    | 12   |      |     |
| 016 | 350b016  | X    | ib      |       |        | 16-DEC-2004 | 00:11 | 1.0 |     |    |    |    |      |      |     |
| 017 | 350b017  | ICAL | hex5    |       |        | 16-DEC-2004 | 00:39 | 1.0 |     |    |    |    | 13   |      |     |
| 018 | 350b018  | ICAL | hex10   |       |        | 16-DEC-2004 | 01:07 | 1.0 |     |    |    |    | 14   |      |     |
| 019 | 350b019  | ICAL | hex25   |       |        | 16-DEC-2004 | 01:35 | 1.0 |     |    |    |    | 15   |      |     |
| 020 | 350b020  | ICAL | hex50   |       |        | 16-DEC-2004 | 02:04 | 1.0 |     |    |    |    | 16   |      |     |
| 021 | 350b021  | X    | ib      |       |        | 16-DEC-2004 | 02:32 | 1.0 |     |    |    |    |      |      |     |
| 022 | 350b022  | ICV  | dsl     |       |        | 16-DEC-2004 | 03:00 | 1.0 |     |    |    |    | 17   |      |     |
| 023 | 350b023  | CCV  | dsl     |       |        | 16-DEC-2004 | 03:28 | 1.0 |     |    |    |    | 18   |      |     |
| 024 | 350b024  | CCV  | mo      |       |        | 16-DEC-2004 | 03:56 | 1.0 |     |    |    |    | 19   |      |     |
| 025 | 350b025  | X    | ib      |       |        | 16-DEC-2004 | 11:47 | 1.0 |     |    |    |    |      |      |     |
| 026 | 350b026  | ICAL | hex75   |       |        | 16-DEC-2004 | 12:15 | 1.0 |     |    |    |    | 20   |      |     |
| 027 | 350b027  | ICAL | dsl     |       |        | 16-DEC-2004 | 14:00 | 1.0 |     |    |    |    | 21   |      |     |
| 028 | 350b028  | X    | ib      |       |        | 16-DEC-2004 | 14:27 | 1.0 |     |    |    |    |      |      |     |
| 029 | 350b029  | ICV  | dsl     |       |        | 16-DEC-2004 | 14:55 | 1.0 |     | 3  |    |    | 17   |      |     |

Stds used: 1=04WS2298 2=04WS2299 3=04WS2300 4=04WS2302 5=04WS2303 6=04WS2297 7=04WS2172 8=04WS2173 9=04WS2174 10=04WS2175 11=04WS2176 12=04WS2169 13=04WS2042 14=04WS2043  
15=04WS2044 16=04WS2045 17=04WS2006 18=04WS2215 19=04WS2365 20=04WS2046 21=04WS2389

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 114506134 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-DEC-2004  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF   | PDF | IOC     | SPK | uL | Std | Used | >LR |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|---------|-----|----|-----|------|-----|
| 001 | 351a001  | X      | ib         |       |        | 16-DEC-2004 | 11:34 | 1.0 |         |     |    |     |      |     |
| 002 | 351a002  | ICAL   | hex5       |       |        | 16-DEC-2004 | 12:04 | 1.0 |         |     |    | 1   |      |     |
| 003 | 351a003  | ICAL   | hex10      |       |        | 16-DEC-2004 | 12:33 | 1.0 |         |     |    | 2   |      |     |
| 004 | 351a004  | ICAL   | hex25      |       |        | 16-DEC-2004 | 13:02 | 1.0 |         |     |    | 3   |      |     |
| 005 | 351a005  | ICAL   | hex50      |       |        | 16-DEC-2004 | 13:31 | 1.0 |         |     |    | 4   |      |     |
| 006 | 351a006  | ICAL   | hex75      |       |        | 16-DEC-2004 | 14:00 | 1.0 |         |     |    | 5   |      |     |
| 007 | 351a007  | X      | ib         |       |        | 16-DEC-2004 | 15:12 | 1.0 |         |     |    |     |      |     |
| 008 | 351a008  | CCV    | ds1        |       |        | 16-DEC-2004 | 15:41 | 1.0 |         |     |    | 6   |      |     |
| 009 | 351a009  | CCV    | mo         |       |        | 16-DEC-2004 | 16:10 | 1.0 |         |     |    | 7   |      |     |
| 010 | 351a010  | SAMPLE | 176613-016 | 97463 | Soil   | 16-DEC-2004 | 16:44 | 1.0 | 0.0994  |     |    | 3   |      |     |
| 011 | 351a011  | SAMPLE | 176613-014 | 97463 | Soil   | 16-DEC-2004 | 17:13 | 1.0 | 0.1000  |     |    | 3   |      |     |
| 012 | 351a012  | SAMPLE | 176613-011 | 97463 | Soil   | 16-DEC-2004 | 17:42 | 1.0 | 0.09901 |     |    | 3   |      |     |
| 013 | 351a013  | SAMPLE | 176613-010 | 97463 | Soil   | 16-DEC-2004 | 18:12 | 1.0 | 0.09994 |     |    | 3   |      |     |
| 014 | 351a014  | SAMPLE | 176613-008 | 97463 | Soil   | 16-DEC-2004 | 18:41 | 1.0 | 0.09917 |     |    | 3   |      |     |
| 015 | 351a015  | SAMPLE | 176613-006 | 97463 | Soil   | 16-DEC-2004 | 19:10 | 1.0 | 0.09992 |     |    | 3   |      |     |
| 016 | 351a016  | SAMPLE | 176613-004 | 97463 | Soil   | 16-DEC-2004 | 19:39 | 1.0 | 0.09944 |     |    | 3   |      |     |
| 017 | 351a017  | SAMPLE | 176613-003 | 97463 | Soil   | 16-DEC-2004 | 20:08 | 1.0 | 0.09932 |     |    | 3   |      |     |
| 018 | 351a018  | SAMPLE | 176613-001 | 97463 | Soil   | 16-DEC-2004 | 20:38 | 1.0 | 0.09998 |     |    | 3   |      |     |
| 019 | 351a019  | LCS    | QC276443 S | 97521 | Soil   | 16-DEC-2004 | 21:07 | 1.0 | 0.1002  |     |    | 3   |      |     |
| 020 | 351a020  | CCV    | ds1        |       |        | 16-DEC-2004 | 21:36 | 1.0 | 1.0     |     |    | 8   |      |     |
| 021 | 351a021  | CCV    | mo         |       |        | 16-DEC-2004 | 22:06 | 1.0 | 1.0     |     |    | 7   |      |     |
| 022 | 351a022  | X      | CCV        |       |        | 16-DEC-2004 | 22:35 | 1.0 |         |     |    | 8   |      |     |

Std used: 1=04WS2042 2=04WS2043 3=04WS2044 4=04WS2045 5=04WS2046 6=04WS2215 7=04WS2365 8=04WS2207

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 165006306 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 04-JAN-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type | Sample     | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Stds | Used | >LR |
|-----|----------|------|------------|-------|--------|-------------|-------|-----|-----|----|----|----|------|------|-----|
| 001 | 004b001  | X    | primer     |       |        | 04-JAN-2005 | 09:06 | 1.0 |     |    |    |    |      |      |     |
| 002 | 004b002  | X    | ib         |       |        | 04-JAN-2005 | 09:34 | 1.0 |     |    |    |    |      |      |     |
| 003 | 004b003  | X    | paint f.p. |       |        | 04-JAN-2005 | 10:29 | 1.0 |     |    |    |    |      |      |     |
| 004 | 004b004  | X    | ib         |       |        | 04-JAN-2005 | 10:58 | 1.0 |     |    |    |    |      |      |     |
| 005 | 004b005  | ICAL | hex5       |       |        | 04-JAN-2005 | 12:08 | 1.0 |     |    |    |    | 1    |      |     |
| 006 | 004b006  | ICAL | hex10      |       |        | 04-JAN-2005 | 12:37 | 1.0 |     |    |    |    | 2    |      |     |
| 007 | 004b007  | ICAL | hex25      |       |        | 04-JAN-2005 | 13:06 | 1.0 |     |    |    |    | 3    |      |     |
| 008 | 004b008  | ICAL | hex50      |       |        | 04-JAN-2005 | 13:34 | 1.0 |     |    |    |    | 4    |      |     |
| 009 | 004b009  | ICAL | hex75      |       |        | 04-JAN-2005 | 14:03 | 1.0 |     |    |    |    | 5    |      |     |
| 010 | 004b010  | X    | ib         |       |        | 04-JAN-2005 | 14:32 | 1.0 |     |    |    |    |      |      |     |
| 011 | 004b011  | CCV  | ds1        |       |        | 04-JAN-2005 | 15:01 | 1.0 |     | 3  |    |    | 6    |      |     |
| 012 | 004b012  | CCV  | mo         |       |        | 04-JAN-2005 | 15:29 | 1.0 | 1   | 3  |    |    | 7    |      |     |

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 165007836 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 05-JAN-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type | Sample       | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Stds | Used | >LR |
|-----|----------|------|--------------|-------|--------|-------------|-------|-----|-----|----|----|----|------|------|-----|
| 003 | 005b003  | CCV  | ds1          |       |        | 05-JAN-2005 | 10:08 | 1.0 | 4   | 3  |    |    | 1    |      |     |
| 004 | 005b004  | CCV  | mo           |       |        | 05-JAN-2005 | 10:36 | 1.0 | 1   | 3  |    |    | 2    |      |     |
| 005 | 005b005  | X    | tank check # |       |        | 05-JAN-2005 | 15:21 | 1.0 |     |    |    |    |      |      |     |
| 006 | 005b006  | X    | tank check 2 |       |        | 05-JAN-2005 | 15:50 | 1.0 |     |    |    |    |      |      |     |
| 007 | 005b007  | X    | ib           |       |        | 05-JAN-2005 | 16:27 | 1.0 |     |    |    |    |      |      |     |
| 008 | 005b008  | ICAL | ds110        |       |        | 05-JAN-2005 | 16:55 | 1.0 |     |    |    |    | 3    |      |     |
| 009 | 005b009  | ICAL | ds1100       |       |        | 05-JAN-2005 | 17:24 | 1.0 |     |    |    |    | 4    |      |     |
| 010 | 005b010  | ICAL | ds1250       |       |        | 05-JAN-2005 | 17:53 | 1.0 |     |    |    |    | 5    |      |     |
| 011 | 005b011  | ICAL | ds1500       |       |        | 05-JAN-2005 | 18:22 | 1.0 |     |    |    |    | 6    |      |     |
| 012 | 005b012  | ICAL | ds11000      |       |        | 05-JAN-2005 | 18:51 | 1.0 |     |    |    |    | 7    |      |     |
| 013 | 005b013  | ICAL | ds12500      |       |        | 05-JAN-2005 | 19:19 | 1.0 |     |    |    |    | 8    |      |     |
| 014 | 005b014  | ICAL | ds15000      |       |        | 05-JAN-2005 | 19:48 | 1.0 |     |    |    |    | 9    |      |     |
| 015 | 005b015  | X    | ib           |       |        | 05-JAN-2005 | 20:17 | 1.0 |     |    |    |    |      |      |     |
| 016 | 005b016  | ICAL | mo50         |       |        | 05-JAN-2005 | 20:46 | 1.0 |     |    |    |    | 10   |      |     |
| 017 | 005b017  | ICAL | mo250        |       |        | 05-JAN-2005 | 21:14 | 1.0 |     |    |    |    | 11   |      |     |
| 018 | 005b018  | ICAL | mo500        |       |        | 05-JAN-2005 | 21:43 | 1.0 |     |    |    |    | 12   |      |     |
| 019 | 005b019  | ICAL | mo1000       |       |        | 05-JAN-2005 | 22:12 | 1.0 |     |    |    |    | 13   |      |     |
| 020 | 005b020  | ICAL | mo2500       |       |        | 05-JAN-2005 | 22:41 | 1.0 |     |    |    |    | 14   |      |     |
| 021 | 005b021  | ICAL | mo5000       |       |        | 05-JAN-2005 | 23:10 | 1.0 |     |    |    |    | 15   |      |     |
| 022 | 005b022  | X    | ib           |       |        | 05-JAN-2005 | 23:39 | 1.0 |     |    |    |    |      |      |     |
| 023 | 005b023  | ICV  | ds1          |       |        | 06-JAN-2005 | 00:08 | 1.0 |     | 3  |    |    | 16   |      |     |
| 024 | 005b024  | X    | ib           |       |        | 06-JAN-2005 | 00:36 | 1.0 |     |    |    |    |      |      |     |
| 025 | 005b025  | CCV  | ds1          |       |        | 06-JAN-2005 | 01:05 | 1.0 |     | 3  |    |    | 1    |      |     |
| 026 | 005b026  | CCV  | mo           |       |        | 06-JAN-2005 | 01:34 | 1.0 |     | 3  |    |    | 2    |      |     |

stds used: 1=04WS2358 2=04WS2365 3=04WS2298 4=04WS2299 5=04WS2300 6=05WS0019 7=04WS2302 8=04WS2303 9=04WS2297 10=04WS2172 11=04WS2173 12=04WS2174 13=04WS2175 14=04WS2176  
15=04WS2169 16=04WS2006

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 145035145 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 24-JAN-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type | Samplerum | Batch | Matrix | Analyzed    | IDF   | IOC | SPK | uL | VL | pH | Stds | Used | >LR |
|-----|----------|------|-----------|-------|--------|-------------|-------|-----|-----|----|----|----|------|------|-----|
| 001 | 024b001  | X    | primer    |       |        | 24-JAN-2005 | 09:45 | 1.0 |     |    |    |    |      |      |     |
| 002 | 024b002  | X    | ib        |       |        | 24-JAN-2005 | 10:13 | 1.0 |     |    |    |    |      |      |     |
| 003 | 024b003  | CCV  | dsl       |       |        | 24-JAN-2005 | 10:41 | 1.0 | 3   | 3  |    |    | 1    |      |     |
| 004 | 024b004  | CCV  | mo        |       |        | 24-JAN-2005 | 11:10 | 1.0 | 1   | 3  |    |    | 2    |      |     |
| 005 | 024b005  | X    | ib        |       |        | 24-JAN-2005 | 12:20 | 1.0 |     |    |    |    |      |      |     |
| 006 | 024b006  | ICAL | dsl10     |       |        | 24-JAN-2005 | 12:48 | 1.0 |     |    |    |    | 3    |      |     |
| 007 | 024b007  | ICAL | dsl100    |       |        | 24-JAN-2005 | 13:16 | 1.0 |     |    |    |    | 4    |      |     |
| 008 | 024b008  | ICAL | dsl250    |       |        | 24-JAN-2005 | 13:44 | 1.0 |     |    |    |    | 5    |      |     |
| 009 | 024b009  | ICAL | dsl500    |       |        | 24-JAN-2005 | 14:12 | 1.0 |     |    |    |    | 6    |      |     |
| 010 | 024b010  | ICAL | dsl1000   |       |        | 24-JAN-2005 | 14:40 | 1.0 |     |    |    |    | 7    |      |     |
| 011 | 024b011  | ICAL | dsl2500   |       |        | 24-JAN-2005 | 15:09 | 1.0 |     |    |    |    | 8    |      |     |
| 012 | 024b012  | ICAL | dsl5000   |       |        | 24-JAN-2005 | 15:37 | 1.0 |     |    |    |    | 9    |      |     |
| 013 | 024b013  | X    | ib        |       |        | 24-JAN-2005 | 16:05 | 1.0 |     |    |    |    |      |      |     |
| 014 | 024b014  | ICV  | dsl       |       |        | 24-JAN-2005 | 16:33 | 1.0 |     | 3  |    |    | 10   |      |     |
| 015 | 024b015  | X    | ib        |       |        | 24-JAN-2005 | 17:01 | 1.0 |     |    |    |    |      |      |     |
| 016 | 024b016  | CCV  | dsl       |       |        | 24-JAN-2005 | 17:29 | 1.0 |     | 3  |    |    | 1    |      |     |

Stds used: 1=04WS2358 2=05WS0066 3=04WS2298 4=04WS2299 5=04WS2300 6=05WS0019 7=04WS2302 8=04WS2303 9=04WS2297 10=04WS2006

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 165044229 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 30-JAN-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF   | PDF  | IOC     | SPK | uL | Std | Used | >LR               |
|-----|----------|--------|------------|-------|--------|-------------|-------|------|---------|-----|----|-----|------|-------------------|
| 001 | 030b001  | X      | primer     |       |        | 30-JAN-2005 | 17:09 | 1.0  |         |     |    |     |      |                   |
| 002 | 030b002  | X      | ib         |       |        | 30-JAN-2005 | 17:38 | 1.0  |         |     |    |     |      |                   |
| 003 | 030b003  | CCV    | mo         |       |        | 30-JAN-2005 | 18:07 | 1.0  |         |     | 3  | 1   |      |                   |
| 004 | 030b004  | CCV    | ds1        |       |        | 30-JAN-2005 | 18:36 | 1.0  |         |     | 3  | 2   |      |                   |
| 005 | 030b005  | CCV    | trans      |       |        | 30-JAN-2005 | 19:05 | 1.0  |         |     | 3  | 3   |      |                   |
| 006 | 030b006  | BLANK  | QC281038 S | 98742 | Soil   | 30-JAN-2005 | 19:34 | 1.0  | 0.09978 | 8   | 3  |     |      |                   |
| 007 | 030b007  | SAMPLE | 177418-003 | 98742 | Soil   | 30-JAN-2005 | 20:03 | 1.0  | 0.1001  |     | 3  |     |      |                   |
| 008 | 030b008  | SAMPLE | 177418-002 | 98742 | Soil   | 30-JAN-2005 | 20:32 | 1.0  | 0.09984 |     | 3  |     |      |                   |
| 009 | 030b009  | SAMPLE | 177418-004 | 98742 | Soil   | 30-JAN-2005 | 21:01 | 1.0  | 0.09996 |     | 3  |     |      |                   |
| 010 | 030b010  | SAMPLE | 177399-043 | 98743 | Soil   | 30-JAN-2005 | 21:30 | 20.0 | 0.09996 | 1   | 3  |     |      | 9:BUNKC:=16365.3  |
| 011 | 030b011  | SAMPLE | 177399-044 | 98743 | Soil   | 30-JAN-2005 | 21:59 | 20.0 | 0.1001  |     | 3  |     |      |                   |
| 012 | 030b012  | SAMPLE | 177399-031 | 98742 | Soil   | 30-JAN-2005 | 22:28 | 1.0  | 0.0999  |     | 3  |     |      |                   |
| 013 | 030b013  | SAMPLE | 177399-047 | 98743 | Soil   | 30-JAN-2005 | 22:56 | 20.0 | 0.09921 |     | 3  |     |      |                   |
| 014 | 030b014  | MSS    | 177399-046 | 98743 | Soil   | 30-JAN-2005 | 23:25 | 20.0 | 0.09932 | 8   | 3  |     |      |                   |
| 015 | 030b015  | SAMPLE | 177399-041 | 98743 | Soil   | 30-JAN-2005 | 23:54 | 1.0  | 0.1001  | 1   | 3  |     |      | 11:BUNKC:=29343.2 |
| 016 | 030b016  | CCV    | ds1        |       |        | 31-JAN-2005 | 00:23 | 1.0  | 1.0     |     | 3  | 4   |      |                   |
| 017 | 030b017  | CCV    | mo         |       |        | 31-JAN-2005 | 00:52 | 1.0  | 1.0     |     | 3  | 1   |      |                   |
| 018 | 030b018  | CCV    | ds1        |       |        | 31-JAN-2005 | 01:20 | 1.0  |         |     |    | 4   |      |                   |
| 019 | 030b019  | CCV    | trans      |       |        | 31-JAN-2005 | 01:49 | 1.0  | 1.0     |     | 3  | 3   |      |                   |
| 020 | 030b020  | SAMPLE | 177399-001 | 98740 | Soil   | 31-JAN-2005 | 02:18 | 3.0  | 0.09996 |     | 3  |     |      | 2:BUNKC:=9005.74  |
| 021 | 030b021  | SAMPLE | 177399-039 | 98743 | Soil   | 31-JAN-2005 | 02:46 | 1.0  | 0.09992 |     | 3  |     |      |                   |
| 022 | 030b022  | SAMPLE | 177399-038 | 98743 | Soil   | 31-JAN-2005 | 03:15 | 1.0  | 0.0999  |     | 3  |     |      |                   |
| 023 | 030b023  | SAMPLE | 177399-025 | 98740 | Soil   | 31-JAN-2005 | 03:44 | 1.0  | 0.1001  |     | 3  |     |      |                   |
| 024 | 030b024  | SAMPLE | 177399-042 | 98743 | Soil   | 31-JAN-2005 | 04:12 | 5.0  | 0.09992 |     | 3  |     |      | 2:BUNKC:=5166.83  |
| 025 | 030b025  | X      | 177399-026 | 98742 | Soil   | 31-JAN-2005 | 04:41 | 1.0  | 0.09994 |     | 3  |     |      | 11:BUNKC:=26207.3 |
| 026 | 030b026  | SAMPLE | 177418-001 | 98742 | Soil   | 31-JAN-2005 | 05:10 | 1.0  | 0.09952 |     | 3  |     |      |                   |
| 027 | 030b027  | SAMPLE | 177399-015 | 98740 | Soil   | 31-JAN-2005 | 05:38 | 20.0 | 0.1001  |     | 3  |     |      | 3:BUNKC:=13118.0  |
| 028 | 030b028  | SAMPLE | 177399-003 | 98740 | Soil   | 31-JAN-2005 | 06:07 | 10.0 | 0.0999  |     | 3  |     |      |                   |
| 029 | 030b029  | SAMPLE | 177399-053 | 98743 | Soil   | 31-JAN-2005 | 06:36 | 1.0  | 0.09956 |     | 3  |     |      |                   |
| 030 | 030b030  | CCV    | ds1        |       |        | 31-JAN-2005 | 07:04 | 1.0  | 1.0     |     | 3  | 5   |      |                   |
| 031 | 030b031  | CCV    | mo         |       |        | 31-JAN-2005 | 07:33 | 1.0  | 1.0     |     | 3  | 1   |      |                   |

Std used: 1=05WS0066 2=05WS0171 3=04WS2026 4=04WS2406 5=05WS0021 6=05WS0114 7=05WS0185 8=05WS0184

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 115045274 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 31-JAN-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF   | PDF  | IOC     | SPK | uL | Stds | Used | >LR              |
|-----|----------|--------|------------|-------|--------|-------------|-------|------|---------|-----|----|------|------|------------------|
| 001 | 031a001  | X      | primer     |       |        | 31-JAN-2005 | 10:34 | 1.0  |         |     |    |      |      |                  |
| 002 | 031a002  | X      | ib         |       |        | 31-JAN-2005 | 11:03 | 1.0  |         |     |    |      |      |                  |
| 003 | 031a003  | CCV    | dsl        |       |        | 31-JAN-2005 | 11:32 | 1.0  |         |     | 3  | 1    |      |                  |
| 004 | 031a004  | CCV    | mo         |       |        | 31-JAN-2005 | 12:01 | 1.0  |         |     | 3  | 2    |      |                  |
| 005 | 031a005  | CCV    | jet        |       |        | 31-JAN-2005 | 12:37 | 1.0  |         |     | 3  | 3    |      |                  |
| 006 | 031a006  | BLANK  | QC281038   | S     | 98742  | 31-JAN-2005 | 13:10 | 1.0  | 0.09978 | 7   | 3  |      |      |                  |
| 007 | 031a007  | SAMPLE | 177383-001 | S     | 98742  | 31-JAN-2005 | 13:39 | 1.0  | 0.0999  |     | 3  |      |      | 1:BUNKC:=11958.9 |
| 008 | 031a008  | SAMPLE | 177383-005 | S     | 98742  | 31-JAN-2005 | 14:09 | 10.0 | 0.1001  |     | 3  |      |      | 1:BUNKC:=5769.47 |
| 009 | 031a009  | SAMPLE | 177383-003 | S     | 98742  | 31-JAN-2005 | 14:38 | 1.0  | 0.09992 |     | 3  |      |      | 1:BUNKC:=7280.46 |
| 010 | 031a010  | SAMPLE | 177383-006 | S     | 98742  | 31-JAN-2005 | 15:07 | 1.0  | 0.1001  |     | 3  |      |      | 1:BUNKC:=9382.58 |
| 011 | 031a011  | SAMPLE | 177383-007 | S     | 98742  | 31-JAN-2005 | 15:36 | 1.0  | 0.0999  | 1   | 3  |      |      | 5:BUNKC:=19544.3 |
| 012 | 031a012  | SAMPLE | 177383-002 | S     | 98742  | 31-JAN-2005 | 16:05 | 1.0  | 0.1001  |     | 3  |      |      | 1:BUNKC:=10307.3 |
| 013 | 031a013  | SAMPLE | 177383-004 | S     | 98742  | 31-JAN-2005 | 16:35 | 1.0  | 0.1001  | 1   | 3  |      |      | 7:BUNKC:=43355.2 |
| 014 | 031a014  | X      | ib         |       |        | 31-JAN-2005 | 17:04 | 1.0  |         |     |    |      |      |                  |
| 015 | 031a015  | X      | ib         |       |        | 31-JAN-2005 | 17:33 | 1.0  |         |     |    |      |      |                  |
| 016 | 031a016  | LCS    | QC281096   | S     | 98754  | 31-JAN-2005 | 18:02 | 1.0  | 0.09992 |     | 3  |      |      |                  |
| 017 | 031a017  | SAMPLE | 177383-014 | S     | 98754  | 31-JAN-2005 | 18:32 | 1.0  | 0.1000  |     | 3  |      |      |                  |
| 018 | 031a018  | X      | CCV        |       |        | 31-JAN-2005 | 19:01 | 1.0  | 1.0     |     | 3  | 4    |      |                  |
| 019 | 031a019  | CCV    | mo         |       |        | 31-JAN-2005 | 19:30 | 1.0  | 1.0     |     | 3  | 2    |      |                  |
| 020 | 031a020  | CCV    | jet        |       |        | 31-JAN-2005 | 19:59 | 1.0  | 1.0     |     | 3  | 3    |      |                  |
| 021 | 031a021  | CCV    | dsl        |       |        | 31-JAN-2005 | 20:32 | 1.0  | 1.0     |     | 3  | 4    |      |                  |
| 022 | 031a022  | SAMPLE | 177383-016 | S     | 98754  | 31-JAN-2005 | 21:01 | 10.0 | 0.1001  |     | 3  |      |      |                  |
| 023 | 031a023  | SAMPLE | 177383-015 | S     | 98754  | 31-JAN-2005 | 21:30 | 10.0 | 0.09992 |     | 3  |      |      |                  |
| 024 | 031a024  | SAMPLE | 177383-017 | S     | 98754  | 31-JAN-2005 | 21:59 | 10.0 | 0.0999  |     | 3  |      |      |                  |
| 025 | 031a025  | SAMPLE | 177383-008 | S     | 98754  | 31-JAN-2005 | 22:29 | 10.0 | 0.09994 |     | 3  |      |      |                  |
| 026 | 031a026  | SAMPLE | 177383-009 | S     | 98754  | 31-JAN-2005 | 22:58 | 10.0 | 0.1000  |     | 3  |      |      |                  |
| 027 | 031a027  | X      | ib         |       |        | 31-JAN-2005 | 23:28 | 1.0  |         |     |    |      |      |                  |
| 028 | 031a028  | SAMPLE | 177383-010 | S     | 98754  | 31-JAN-2005 | 23:57 | 10.0 | 0.09996 |     | 3  |      |      |                  |
| 029 | 031a029  | SAMPLE | 177383-011 | S     | 98754  | 01-FEB-2005 | 00:26 | 10.0 | 0.1001  |     | 3  |      |      |                  |
| 030 | 031a030  | SAMPLE | 177383-012 | S     | 98754  | 01-FEB-2005 | 00:56 | 2.0  | 0.1001  |     | 3  |      |      |                  |
| 031 | 031a031  | SAMPLE | 177383-013 | S     | 98754  | 01-FEB-2005 | 01:25 | 1.0  | 0.1000  |     | 3  |      |      |                  |

Stds used: 1=04WS2406 2=05WS0066 3=05WS0114 4=05WS0021



SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 115045274 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 31-JAN-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type   | Sample     | Batch   | Matrix | Analyzed    | IDF   | PDF  | IOC     | SPK | uL | Std | Used | >LR              |
|-----|----------|--------|------------|---------|--------|-------------|-------|------|---------|-----|----|-----|------|------------------|
| 032 | 031a032  | SAMPLE | 177390-001 | 98754   | Soil   | 01-FEB-2005 | 01:55 | 50.0 | 0.09996 |     | 3  |     |      |                  |
| 033 | 031a033  | CCV    | ds1        |         |        | 01-FEB-2005 | 02:24 | 1.0  | 1.0     |     | 3  | 1   |      |                  |
| 034 | 031a034  | CCV    | mo         |         |        | 01-FEB-2005 | 02:53 | 1.0  | 1.0     |     | 3  | 2   |      |                  |
| 035 | 031a035  | X      | ccv        |         |        | 01-FEB-2005 | 03:23 | 1.0  |         |     |    | 1   |      |                  |
| 036 | 031a036  | CCV    | jet        |         |        | 01-FEB-2005 | 03:52 | 1.0  | 1.0     |     | 3  | 3   |      |                  |
| 037 | 031a037  | SAMPLE | 177390-003 | 98754   | Soil   | 01-FEB-2005 | 04:21 | 50.0 | 0.09992 | 1   | 3  |     |      |                  |
| 038 | 031a038  | MSS    | 177390-004 | 98754   | Soil   | 01-FEB-2005 | 04:51 | 50.0 | 0.1000  | 7   | 3  |     |      |                  |
| 039 | 031a039  | SAMPLE | 177403-005 | 98754   | Soil   | 01-FEB-2005 | 05:20 | 1.0  | 0.1000  | 1   | 3  |     |      | 1:BUNKC:=7174.73 |
| 040 | 031a040  | SAMPLE | 177390-002 | 98754   | Soil   | 01-FEB-2005 | 05:49 | 50.0 | 0.1000  | 1   | 3  |     |      |                  |
| 041 | 031a041  | X      | ib         |         |        | 01-FEB-2005 | 06:19 | 1.0  |         |     |    |     |      |                  |
| 042 | 031a042  | SAMPLE | 177433-001 | S 98754 | Soil   | 01-FEB-2005 | 06:48 | 1.0  | 0.09905 | 1   | 3  |     |      |                  |
| 043 | 031a043  | X      | ds1        |         |        | 01-FEB-2005 | 07:18 | 1.0  | 1.0     |     | 3  | 4   |      |                  |
| 044 | 031a044  | X      | mo         |         |        | 01-FEB-2005 | 07:47 | 1.0  | 1.0     |     | 3  | 2   |      |                  |
| 045 | 031a045  | CCV    | ds1        |         |        | 01-FEB-2005 | 08:17 | 1.0  | 1.0     |     | 3  | 4   |      |                  |

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 165044229 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 30-JAN-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type   | Sample       | Batch | Matrix | Analyzed    | IDF   | PDF      | IOC | SPK | UL | Stds | Used | >LR               |
|-----|----------|--------|--------------|-------|--------|-------------|-------|----------|-----|-----|----|------|------|-------------------|
| 032 | 030b032  | X      | ccv          |       |        | 31-JAN-2005 | 08:01 | 1.0      |     |     |    | 5    |      |                   |
| 033 | 030b033  | CCV    | trans        |       |        | 31-JAN-2005 | 08:30 | 1.0      |     |     |    | 3    |      |                   |
| 034 | 030b034  | SAMPLE | 177325-009   | 98711 | Water  |             |       | 1.0      |     |     |    | 3    |      | 2:JETA:1=5432.20  |
| 035 | 030b035  | LCS    | QC281039 S   | 98742 | Soil   |             |       | 0.008333 |     |     |    | 3    |      |                   |
| 036 | 030b036  | MS     | QC281040     | 98742 | Soil   |             |       | 0.09952  |     |     |    | 3    |      |                   |
| 037 | 030b037  | MSD    | QC281041     | 98742 | Soil   |             |       | 0.1001   |     |     |    | 3    |      | 11:BUNKC:=25779.2 |
| 038 | 030b038  | MS     | QC281044     | 98743 | Soil   |             |       | 0.1001   |     |     |    | 3    |      | 11:BUNKC:=29865.6 |
| 039 | 030b039  | MSD    | QC281045     | 98743 | Soil   |             |       | 0.0996   |     |     |    | 3    |      | 11:BUNKC:=28731.8 |
| 040 | 030b040  | CCV    | ds1          |       |        | 31-JAN-2005 | 11:23 | 1.0      |     |     |    | 3    |      | 11:BUNKC:=28399.8 |
| 041 | 030b041  | CCV    | mo           |       |        | 31-JAN-2005 | 11:52 | 1.0      |     |     |    | 4    |      |                   |
| 042 | 030b042  | CCV    | trans        |       |        | 31-JAN-2005 | 12:21 | 1.0      |     |     |    | 3    |      |                   |
| 043 | 030b043  | SAMPLE | 177399-041   | 98743 | Soil   |             |       | 1.0      |     |     |    | 3    |      |                   |
| 044 | 030b044  | SAMPLE | 177399-043   | 98743 | Soil   |             |       | 0.1001   |     |     |    | 3    |      | 2:BUNKC:=7712.32  |
| 045 | 030b045  | MSS    | 177399-026   | 98742 | Soil   |             |       | 0.09996  |     |     |    | 3    |      | 2:BUNKC:=8194.03  |
| 046 | 030b046  | SAMPLE | 177325-008   | 98711 | Water  |             |       | 0.09994  |     |     |    | 3    |      |                   |
| 047 | 030b047  | SAMPLE | 177325-009   | 98711 | Water  |             |       | 0.008333 |     |     |    | 3    |      |                   |
| 048 | 030b048  | CCV    | ds1          |       |        | 31-JAN-2005 | 15:43 | 1.0      |     |     |    | 5    |      |                   |
| 049 | 030b049  | CCV    | mo           |       |        | 31-JAN-2005 | 16:11 | 1.0      |     |     |    | 3    |      |                   |
| 050 | 030b050  | CCV    | trans        |       |        | 31-JAN-2005 | 16:40 | 1.0      |     |     |    | 3    |      |                   |
| 051 | 030b051  | CCV    | jet          |       |        | 31-JAN-2005 | 17:44 | 1.0      |     |     |    | 6    |      |                   |
| 052 | 030b052  | BLANK  | QC281095 S   | 98754 | Soil   |             |       | 0.09992  |     |     |    | 3    |      |                   |
| 053 | 030b053  | SAMPLE | 177419-001   | 98754 | Soil   |             |       | 0.1002   |     |     |    | 3    |      |                   |
| 054 | 030b054  | SAMPLE | 177383-004 S | 98742 | Soil   |             |       | 0.1001   |     |     |    | 3    |      | 2:BUNKC:=5260.88  |
| 055 | 030b055  | X      | ib           |       |        | 31-JAN-2005 | 19:45 | 10.0     |     |     |    |      |      |                   |
| 056 | 030b056  | LCS    | QC281151     | 98769 | Soil   |             |       | 1.0      |     |     |    |      |      |                   |
| 057 | 030b057  | BLANK  | QC281150     | 98769 | Soil   |             |       | 0.09915  |     |     |    | 3    |      |                   |
| 058 | 030b058  | SAMPLE | 177434-005   | 98769 | Soil   |             |       | 0.09888  |     |     |    | 3    |      |                   |
| 059 | 030b059  | SAMPLE | 177434-006   | 98769 | Soil   |             |       | 0.09968  |     |     |    | 3    |      |                   |
| 060 | 030b060  | SAMPLE | 177434-009   | 98769 | Soil   |             |       | 0.1000   |     |     |    | 3    |      |                   |
| 061 | 030b061  | SAMPLE | 177434-010   | 98769 | Soil   |             |       | 0.09974  |     |     |    | 3    |      |                   |
| 062 | 030b062  | SAMPLE | 177434-011   | 98769 | Soil   |             |       | 0.09944  |     |     |    | 3    |      |                   |
| 062 | 030b062  | SAMPLE | 177434-011   | 98769 | Soil   |             |       | 0.09966  |     |     |    | 3    |      |                   |

Stds used: 1=05WS0066 2=05WS0171 3=04WS2026 4=04WS2406 5=05WS0021 6=05WS0114 7=05WS0185 8=05WS0184

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 145046706 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 01-FEB-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type | Sample   | Batch | Matrix | Analyzed    | IDF   | PDF | IOC | SPK     | uL | Std | Used | >LR |
|-----|----------|------|----------|-------|--------|-------------|-------|-----|-----|---------|----|-----|------|-----|
| 001 | 032b001  | X    | primer   |       |        | 01-FEB-2005 | 10:26 | 1.0 |     |         |    |     |      |     |
| 002 | 032b002  | X    | ib       |       |        | 01-FEB-2005 | 10:53 | 1.0 |     |         |    |     |      |     |
| 003 | 032b003  | CCV  | ds1      |       |        | 01-FEB-2005 | 11:22 | 1.0 |     |         | 3  | 1   |      |     |
| 004 | 032b004  | CCV  | mo       |       |        | 01-FEB-2005 | 11:50 | 1.0 |     | 1       | 3  | 2   |      |     |
| 005 | 032b005  | CCV  | ds1      |       |        | 01-FEB-2005 | 15:03 | 1.0 |     |         | 3  | 3   |      |     |
| 006 | 032b006  | XS   | QC281097 | 98754 | Soil   | 01-FEB-2005 | 15:50 | 3.0 |     | 0.09994 | 3  |     |      |     |
| 007 | 032b007  | MSD  | QC281098 | 98754 | Soil   | 01-FEB-2005 | 16:18 | 3.0 |     | 0.09996 | 1  | 3   |      |     |
| 008 | 032b008  | CCV  | ds1      |       |        | 01-FEB-2005 | 16:57 | 1.0 |     | 1.0     | 3  | 4   |      |     |

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 165044229 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 30-JAN-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type   | Samplenum  | Batch   | Matrix | Analyzed    | IDF   | PDF  | IOC     | SPK | uL | Std | Used              | >LR |
|-----|----------|--------|------------|---------|--------|-------------|-------|------|---------|-----|----|-----|-------------------|-----|
| 063 | 030b063  | CCV    | dsl        |         |        | 01-FEB-2005 | 00:06 | 1.0  |         |     | 3  | 4   |                   |     |
| 064 | 030b064  | CCV    | mo         |         |        | 01-FEB-2005 | 00:35 | 1.0  |         |     | 3  | 1   |                   |     |
| 065 | 030b065  | X      | ccv        |         |        | 01-FEB-2005 | 01:04 | 1.0  |         |     |    | 4   |                   |     |
| 066 | 030b066  | CCV    | trans      |         |        | 01-FEB-2005 | 01:33 | 1.0  |         |     | 3  | 3   |                   |     |
| 067 | 030b067  | CCV    | jet        |         |        | 01-FEB-2005 | 02:02 | 1.0  |         |     | 3  | 6   |                   |     |
| 068 | 030b068  | SAMPLE | 177434-004 | 98769   | Soil   | 01-FEB-2005 | 02:31 | 1.0  | 0.1000  |     | 3  |     |                   |     |
| 069 | 030b069  | SAMPLE | 177434-008 | 98769   | Soil   | 01-FEB-2005 | 03:00 | 1.0  | 0.09919 |     | 3  |     |                   |     |
| 070 | 030b070  | SAMPLE | 177434-003 | 98769   | Soil   | 01-FEB-2005 | 03:29 | 1.0  | 0.09962 |     | 3  |     |                   |     |
| 071 | 030b071  | SAMPLE | 177434-002 | 98769   | Soil   | 01-FEB-2005 | 03:58 | 1.0  | 0.09946 |     | 3  |     |                   |     |
| 072 | 030b072  | SAMPLE | 177434-007 | 98769   | Soil   | 01-FEB-2005 | 04:28 | 1.0  | 0.09974 | 1   | 3  |     | 11:BUNKC:=36108.4 |     |
| 073 | 030b073  | SAMPLE | 177434-012 | 98769   | Soil   | 01-FEB-2005 | 04:56 | 1.0  | 0.1000  |     | 3  |     |                   |     |
| 074 | 030b074  | MSS    | 177389-016 | 98769   | Soil   | 01-FEB-2005 | 05:25 | 1.0  | 0.09942 | 13  | 3  |     | 8:BUNKC:=16144.6  |     |
| 075 | 030b075  | SAMPLE | 177389-014 | 98754   | Soil   | 01-FEB-2005 | 05:54 | 1.0  | 0.09905 |     | 3  |     |                   |     |
| 076 | 030b076  | MS     | QC281152   | 98769   | Soil   | 01-FEB-2005 | 06:24 | 1.0  | 0.09932 |     | 3  |     | 9:BUNKC:=20847.7  |     |
| 077 | 030b077  | MSD    | QC281153   | 98769   | Soil   | 01-FEB-2005 | 06:53 | 1.0  | 0.09901 |     | 3  |     | 8:BUNKC:=18744.6  |     |
| 078 | 030b078  | X      | ib         |         |        | 01-FEB-2005 | 07:22 | 1.0  |         |     |    |     |                   |     |
| 079 | 030b079  | CCV    | dsl        |         |        | 01-FEB-2005 | 07:51 | 1.0  | 1.0     |     | 3  | 5   |                   |     |
| 080 | 030b080  | CCV    | mo         |         |        | 01-FEB-2005 | 08:20 | 1.0  | 1.0     |     | 3  | 1   |                   |     |
| 081 | 030b081  | X      | ccv        |         |        | 01-FEB-2005 | 08:49 | 1.0  |         |     |    | 5   |                   |     |
| 082 | 030b082  | CCV    | trans      |         |        | 01-FEB-2005 | 09:19 | 1.0  | 1.0     |     | 3  | 3   |                   |     |
| 083 | 030b083  | CCV    | jet        |         |        | 01-FEB-2005 | 10:53 | 1.0  | 1.0     |     | 3  | 6   |                   |     |
| 084 | 030b084  | MSS    | 177389-016 | 98769   | Soil   | 01-FEB-2005 | 11:22 | 3.0  | 0.09942 | 7   | 3  |     | 2:BUNKC:=5458.91  |     |
| 085 | 030b085  | SAMPLE | 177434-007 | 98769   | Soil   | 01-FEB-2005 | 11:51 | 25.0 | 0.09974 |     | 3  |     | 2:BUNKC:=8275.51  |     |
| 086 | 030b086  | SAMPLE | 177433-001 | S 98754 | Soil   | 01-FEB-2005 | 12:20 | 1.0  | 0.09905 |     | 3  |     |                   |     |
| 087 | 030b087  | SAMPLE | 177383-007 | S 98742 | Soil   | 01-FEB-2005 | 12:49 | 2.0  | 0.0999  |     | 3  |     | 2:BUNKC:=5978.98  |     |
| 088 | 030b088  | SAMPLE | 177403-005 | 98754   | Soil   | 01-FEB-2005 | 13:18 | 1.0  | 0.1000  |     | 3  |     |                   |     |
| 089 | 030b089  | MSS    | 177390-004 | 98754   | Soil   | 01-FEB-2005 | 13:48 | 3.0  | 0.1000  | 7   | 3  |     |                   |     |
| 090 | 030b090  | SAMPLE | 177390-003 | 98754   | Soil   | 01-FEB-2005 | 15:01 | 2.0  | 0.09992 |     | 3  |     |                   |     |
| 091 | 030b091  | SAMPLE | 177390-002 | 98754   | Soil   | 01-FEB-2005 | 15:30 | 20.0 | 0.1000  |     | 3  |     |                   |     |
| 092 | 030b092  | SAMPLE | 177390-001 | 98754   | Soil   | 01-FEB-2005 | 15:59 | 10.0 | 0.09996 |     | 3  |     |                   |     |
| 093 | 030b093  | CCV    | dsl        |         |        | 01-FEB-2005 | 16:28 | 1.0  | 1.0     |     | 3  | 4   |                   |     |

Std's used: 1=05WS0066 2=05WS0171 3=04WS2026 4=04WS2406 5=05WS0021 6=05WS0114 7=05WS0185 8=05WS0184

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 165044229 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 30-JAN-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF         | PDF   | IOC  | SPK     | uL | Std | Used | >LR               |
|-----|----------|--------|------------|-------|--------|-------------|-------------|-------|------|---------|----|-----|------|-------------------|
| 094 | 030b094  | CCV    | mo         |       |        | 01-FEB-2005 | 16:57       | 1.0   |      |         | 3  | 7   |      |                   |
| 095 | 030b095  | CCV    | jet        |       |        | 01-FEB-2005 | 17:26       | 1.0   |      |         | 3  | 6   |      |                   |
| 096 | 030b096  | CCV    | trans      |       |        | 01-FEB-2005 | 17:55       | 1.0   |      |         | 3  | 3   |      |                   |
| 097 | 030b097  | BLANK  | QC281244   | S     | 98794  | Soil        | 01-FEB-2005 | 19:46 | 1.0  | 0.09992 | 7  |     |      |                   |
| 098 | 030b098  | LCS    | QC281245   | S     | 98794  | Soil        | 01-FEB-2005 | 20:15 | 1.0  | 0.09998 | 3  |     |      |                   |
| 099 | 030b099  | SAMPLE | 177446-001 | S     | 98794  | Soil        | 01-FEB-2005 | 20:44 | 1.0  | 0.0998  | 3  |     |      |                   |
| 100 | 030b100  | SAMPLE | 177446-002 | S     | 98794  | Soil        | 01-FEB-2005 | 21:13 | 1.0  | 0.09948 | 3  |     |      |                   |
| 101 | 030b101  | SAMPLE | 177446-003 | S     | 98794  | Soil        | 01-FEB-2005 | 21:42 | 1.0  | 0.0993  | 3  |     |      |                   |
| 102 | 030b102  | SAMPLE | 177446-004 | S     | 98794  | Soil        | 01-FEB-2005 | 22:11 | 1.0  | 0.09923 | 1  | 1   |      | 9:BUNKC:=30084.7  |
| 103 | 030b103  | SAMPLE | 177446-005 | S     | 98794  | Soil        | 01-FEB-2005 | 22:40 | 1.0  | 0.09925 | 1  | 3   |      | 9:BUNKC:=18371.5  |
| 104 | 030b104  | SAMPLE | 177389-012 |       | 98794  | Soil        | 01-FEB-2005 | 23:09 | 1.0  | 0.09938 | 3  |     |      |                   |
| 105 | 030b105  | SAMPLE | 177415-001 |       | 98794  | Soil        | 01-FEB-2005 | 23:38 | 10.0 | 0.09988 | 3  |     |      |                   |
| 106 | 030b106  | X      | ib         |       |        | 02-FEB-2005 | 00:07       | 1.0   |      |         |    |     |      |                   |
| 107 | 030b107  | CCV    | dsl        |       |        | 02-FEB-2005 | 00:37       | 1.0   |      |         | 3  | 5   |      |                   |
| 108 | 030b108  | CCV    | mo         |       |        | 02-FEB-2005 | 01:06       | 1.0   |      |         | 3  | 7   |      |                   |
| 109 | 030b109  | XCCV   | dsl        |       |        | 02-FEB-2005 | 01:35       | 1.0   |      |         | 3  | 5   |      |                   |
| 110 | 030b110  | CCV    | trans      |       |        | 02-FEB-2005 | 02:05       | 1.0   |      |         | 3  | 3   |      |                   |
| 111 | 030b111  | SAMPLE | 177415-003 |       | 98794  | Soil        | 02-FEB-2005 | 02:34 | 2.0  | 0.0999  | 1  | 1   |      | 11:BUNKC:=36096.9 |
| 112 | 030b112  | XMS    | QC281246   |       | 98794  | Soil        | 02-FEB-2005 | 03:03 | 1.0  | 0.09946 | 3  |     |      |                   |
| 113 | 030b113  | XMSD   | QC281247   |       | 98794  | Soil        | 02-FEB-2005 | 03:32 | 1.0  | 0.0993  | 3  |     |      |                   |
| 114 | 030b114  | MSS    | 177415-002 |       | 98794  | Soil        | 02-FEB-2005 | 04:01 | 1.0  | 0.09903 | 14 | 1   |      | 9:BUNKC:=22177.1  |
| 115 | 030b115  | X      | ib         |       |        | 02-FEB-2005 | 04:30       | 1.0   |      |         |    |     |      |                   |
| 116 | 030b116  | CCV    | dsl        |       |        | 02-FEB-2005 | 04:59       | 1.0   |      | 1.0     | 3  | 8   |      |                   |
| 117 | 030b117  | CCV    | mo         |       |        | 02-FEB-2005 | 05:29       | 1.0   |      | 1.0     | 3  | 7   |      |                   |
| 118 | 030b118  | XCCV   | dsl        |       |        | 02-FEB-2005 | 05:58       | 1.0   |      |         |    | 8   |      |                   |

Std used: 1=05WS0066 2=05WS0171 3=04WS2026 4=04WS2406 5=05WS0021 6=05WS0114 7=05WS0185 8=05WS0184

SEQUENCE SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

Sequence: 145048106 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 02-FEB-2005  
Analytical Method: EPA 8015B SOP Version: TEH\_rv12

| #   | Filename | Type   | Samplenum    | Batch | Matrix | Analyzed    | IDF   | PDF  | IOC     | SPK | uL | Stds Used | >LR |
|-----|----------|--------|--------------|-------|--------|-------------|-------|------|---------|-----|----|-----------|-----|
| 001 | 033b001  | X      | primer       |       |        | 02-FEB-2005 | 09:46 | 1.0  |         |     |    |           |     |
| 002 | 033b002  | X      | ib           |       |        | 02-FEB-2005 | 10:14 | 1.0  |         |     |    |           |     |
| 003 | 033b003  | CCV    | ds1          |       |        | 02-FEB-2005 | 10:42 | 1.0  |         |     | 3  | 1         |     |
| 004 | 033b004  | CCV    | mo           |       |        | 02-FEB-2005 | 11:10 | 1.0  |         | 1   | 3  | 2         |     |
| 005 | 033b005  | SAMPLE | 177446-005 S | 98794 | Soil   | 02-FEB-2005 | 11:39 | 3.0  | 0.09925 |     | 3  |           |     |
| 006 | 033b006  | SAMPLE | 177446-004 S | 98794 | Soil   | 02-FEB-2005 | 12:07 | 20.0 | 0.09923 |     | 3  |           |     |
| 007 | 033b007  | MS     | QC281097     | 98754 | Soil   | 02-FEB-2005 | 12:35 | 3.0  | 0.09994 |     | 3  |           |     |
| 008 | 033b008  | CCV    | mo           |       |        | 02-FEB-2005 | 13:22 | 1.0  | 1.0     | 1   | 3  | 2         |     |
| 009 | 033b009  | CCV    | ds1          |       |        | 02-FEB-2005 | 13:58 | 1.0  | 1.0     |     | 3  | 3         |     |

REPORTING SUMMARY FOR 177403 TEHM Soil  
Curtis & Tompkins Laboratories

| Lab ID     | Inst ID | Analyzed       | IDF | D<br>S<br>L<br>: | M<br>O<br>: | H<br>X<br>C<br>S |  |
|------------|---------|----------------|-----|------------------|-------------|------------------|--|
| 177403-005 | GC11A   | 02/01/05 05:20 | 1.0 |                  |             |                  |  |
| 177403-005 | GC15B   | 02/01/05 13:18 | 1.0 |                  |             |                  |  |
| 177403-005 | GC15B   | 02/14/05 12:10 | 1.0 |                  |             |                  |  |
| 177403-005 | GC17A   | 02/14/05 13:54 | 1.0 | +                | +           | +                |  |
| QC281095   | GC15B   | 01/31/05 18:26 | 1.0 | +                | +           | +                |  |
| QC281096   | GC11A   | 01/31/05 18:02 | 1.0 | +                |             | +                |  |
| QC281097   | GC13B   | 02/02/05 12:35 | 3.0 | +                |             | +                |  |
| QC281098   | GC13B   | 02/01/05 16:18 | 3.0 | +                |             | +                |  |

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Curtis &amp; Tompkins Laboratories

Sample Preparation Summary

31-JAN-2005 18:44

Batch Number : 98754  
Date Extracted by : 31-JAN-2005  
Extracted by : Jessie O'Brien Mee  
Prep Method : SHAKER TABLE

Analysis : N/A  
Bgroup : TEH  
Units : g  
Clean-up :

Spike #1 ID : 05WS0159D  
Spike #2 ID : 05WS0094F  
Spike #3 ID :

| Sample     | Type | Client                         | Matrix | Init W/V | Units | Final Vol | Prep D.F. | Clean pH | Sp 1 Vol | Sp 2 Vol | Sp 3 Vol | Analyses | Clean Method | Comments |
|------------|------|--------------------------------|--------|----------|-------|-----------|-----------|----------|----------|----------|----------|----------|--------------|----------|
| 177383-008 |      | Baseline Environmental         | Soil   | 50.03 g  | 5     | 0.099940  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| 177383-009 |      | Baseline Environmental         | Soil   | 50 g     | 5     | 0.100000  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| 177383-010 |      | Baseline Environmental         | Soil   | 50.02 g  | 5     | 0.099960  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| 177383-011 |      | Baseline Environmental         | Soil   | 49.96 g  | 5     | 0.100080  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| 177383-012 |      | Baseline Environmental         | Soil   | 49.96 g  | 5     | 0.100080  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| 177383-013 |      | Baseline Environmental         | Soil   | 50 g     | 5     | 0.100000  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| 177383-014 |      | Baseline Environmental         | Soil   | 50 g     | 5     | 0.100000  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| 177383-015 |      | Baseline Environmental         | Soil   | 50.04 g  | 5     | 0.099920  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| 177383-016 |      | Baseline Environmental         | Soil   | 49.96 g  | 5     | 0.100080  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| 177383-017 |      | Baseline Environmental         | Soil   | 50.05 g  | 5     | 0.099900  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| 177389-013 |      | TRC Environmental Solutions, I | Soil   | 50.12 g  | 5     | 0.099761  | 1         | 1        | 0        | 0        | 0        | TEH      |              |          |
| 177389-014 |      | TRC Environmental Solutions, I | Soil   | 50.48 g  | 5     | 0.099049  | 1         | 1        | 0        | 0        | 0        | TEH      |              |          |
| 177389-015 |      | TRC Environmental Solutions, I | Soil   | 50.04 g  | 5     | 0.099920  | 1         | 1        | 0        | 0        | 0        | TEH      |              |          |
| 177390-001 |      | Lakeside Recycling             | Soil   | 50.02 g  | 5     | 0.099960  | 1         | 1        | 0        | 0        | 0        | TEHM     |              |          |
| 177390-002 |      | Lakeside Recycling             | Soil   | 50 g     | 5     | 0.100000  | 1         | 1        | 0        | 0        | 0        | TEHM     |              |          |
| 177390-003 |      | Lakeside Recycling             | Soil   | 50.04 g  | 5     | 0.099920  | 1         | 1        | 0        | 0        | 0        | TEHM     |              |          |
| 177390-004 |      | Lakeside Recycling             | Soil   | 50 g     | 5     | 0.100000  | 1         | 1        | 0        | 0        | 0        | TEHM     |              |          |
| 177403-005 |      | Treadwell & Rollo              | Soil   | 50 g     | 5     | 0.100000  | 1         | 1        | 0        | 0        | 0        | TEHM     |              | MSS      |
| 177409-001 |      | TRC Environmental Solutions, I | Soil   | 49.91 g  | 5     | 0.100180  | 1         | 1        | 0        | 0        | 0        | TEH      |              |          |
| 177433-001 |      | Clayton Group Services         | Soil   | 50.48 g  | 5     | 0.099049  | 1         | 1        | 0        | 0        | 0        | TEHM     | 3630C        | sg       |
| QC281095   | MB   |                                | Soil   | 50.04 g  | 5     | 0.099920  | 1         | 1        | 0        | 0        | 0        | TEH      | 3630C        | sg       |
| QC281096   | LCS  |                                | Soil   | 50.04 g  | 5     | 0.099920  | 1         | 1        | 0        | 0        | 0        | TEH      | 3630C        | sg       |
| QC281097   | MS   |                                | Soil   | 50.04 g  | 5     | 0.099920  | 1         | 1        | 1        | 1        | 1        | TEH      | 3630C        | sg       |
| QC281098   | MSD  |                                | Soil   | 50.03 g  | 5     | 0.099940  | 1         | 1        | 1        | 1        | 1        | TEH      |              |          |
|            |      |                                |        | 50.02 g  | 5     | 0.099960  | 1         | 1        | 1        | 1        | 1        | TEH      |              |          |

of 177390-004  
of 177390-004

Prep Chemist: JRD for Jom 1/31/05 Reviewed By: Jennifer Bell Date: 1/31/05

Relinquished By: JRD for Jom 1/31/05 Received By: JES Date: 1/31/05



LIMS Batch No: 98754  
 LIMS Analysis: TEH  
 Extracted by: JOM  
 Date Extracted: 31 Jan 05

Extraction Method:  
☒ Mechanical Shaker Table  
☐ EPA 3550 Sonication  
☐ Other \_\_\_\_\_

Cleanup Method (if necessary):  
☒ EPA 3630 Silica Gel  
☐ Other \_\_\_\_\_

| Sample # & letter | Weight of Sample (g) | Final Volume (mL) | Cleanup (x if needed) | Comments    |
|-------------------|----------------------|-------------------|-----------------------|-------------|
| 177383-008 D      | 50.03                | 5.0               | X                     |             |
| -009              | 50.00                |                   |                       |             |
| -010              | 50.02                |                   |                       |             |
| -011              | 49.96                |                   |                       |             |
| -012              | 49.96                |                   |                       |             |
| -013              | 50.00                |                   |                       |             |
| -014              | 50.00                |                   |                       |             |
| -015              | 50.04                |                   |                       |             |
| -016              | 49.96                |                   |                       |             |
| 10 ↓ -017 ↓       | 50.05                |                   | ↓                     |             |
| 177390-001 A      | 50.02                |                   |                       |             |
| -002              | 50.00                |                   |                       |             |
| -003              | 50.04                |                   |                       |             |
| ↓ -004 ↓          | 50.00                |                   |                       | MSS         |
| 15 177403-005     | 50.00                |                   |                       |             |
| 177419-001        | 49.91                |                   |                       |             |
| MB QC281095       | 50.04                |                   | X                     |             |
| LCS 96            | 50.04                |                   | ↓                     |             |
| MS 97             | 50.03                |                   |                       | 177390-004A |
| 20 MSD ↓ 98       | 50.02                | ↓                 |                       | ↓           |
| 177389-013        | 50.12                |                   | *                     |             |
| ↓ -014            | 50.48                |                   |                       |             |
| ↓ -015            | 50.04                |                   |                       |             |
| 177433-001        | 50.48                | ↓                 | X                     |             |

JRD  
1/31/05

Mfg & Lot # / LIMS # / Time Date/Initials

|   |            |               |
|---|------------|---------------|
| Sand weighed out for QC samples   | EM44258    | JOM 31 Jan 05 |
| Samples were dried with CH <sub>2</sub> Cl <sub>2</sub> -rinsed granular Na <sub>2</sub> SO <sub>4</sub>                | EM44135439 |               |
| 1.0 mL of TEH_SURR surrogate solution was added to all samples  | 05WS0159D  |               |
| 1.0 mL of TEH_SP matrix spiking solution was added to all spikes  | 05WS0094F  |               |
| ≥ 75 mL of 1+1 (CH <sub>2</sub> Cl <sub>2</sub> +Acetone) was added to all  | EM44244    |               |
|   | EM44281    |               |
| Samples were: <input type="checkbox"/> sonicated 3 times <input checked="" type="checkbox"/> placed on shaker table at: | 0800/1500* |               |
| taken off shaker table at:  | 1000       |               |
| Extracts filtered through baked, rinsed granular Na <sub>2</sub> SO <sub>4</sub>  | EM44135439 |               |
| Concentrated to volumes as noted above  | ✓          | ↓             |

Jessie Mee 31 Jan 05  
 Extraction Chemist / Date

Continued from page \_\_\_\_\_  
 Continued on page 43

Jennifer Reel 1/31/05  
 Reviewed by / Date

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|                                     |   | Mfg & Lot # / Time / Program | Initials / Date |
|-------------------------------------|---|------------------------------|-----------------|
| <input checked="" type="checkbox"/> | Extracts were cleaned up using C&T assembled <u>1.0</u> g columns       | JTB V 33332                  | JDM 31 Jan 05   |
| <input type="checkbox"/>            | Extracts were cleaned up using _____ g cartridges                       | N/A                          | ↓               |
|                                     | Extracts were eluted with <u>4.0</u> mL CH <sub>2</sub> Cl <sub>2</sub> | EM44302                      | ↓               |
|                                     | Concentrated to volumes as noted above                                  | ✓                            | ↓               |

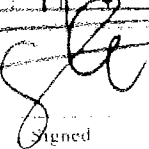
Jennifer Dell 1/31/05  
Reviewed by / Date

SOIL ALQUOT

BK2032

| SAMPLE ID   | WEIGHT (G) | ANALYSIS | COMMENTS |
|-------------|------------|----------|----------|
| 177383-0010 | 30.02      | 8310     |          |
| -0020       | 30.05      |          |          |
| -0030       | 30.01      |          |          |
| -0040       | 30.05      |          |          |
| -0050       | 30.02      |          |          |
| -0060       | 30.00      |          |          |
| -0070       | 30.01      |          |          |
| -0080       | 30.02      |          |          |
| -0090       | 30.01      |          |          |
| -0100       | 30.00      |          |          |
| -0110       | 30.03      |          |          |
| -0120       | 29.97      |          |          |
| -0130       | 30.01      |          |          |
| -0140       | 29.99      |          |          |
| -0150       | 30.02      |          |          |
| -0160       | 29.93      |          |          |
| -0170       | 29.93      |          |          |
| -MS0        | 29.93      |          | MSS      |
| -MS00       | 30.01      |          |          |
| -LCS0       | 30.05      |          | EM44 258 |
| -MB0        | 30.03      |          | ↓        |
| 177383-0010 | 50.05      | TEHM     |          |
| -0020       | 49.97      |          |          |
| -0030       | 50.04      |          |          |
| -0040       | 49.96      |          |          |
| -0050       | 49.97      |          |          |
| -0060       | 49.97      |          |          |
| -0070       | 50.05      |          |          |
| -0080       | 50.03      |          |          |
| -0090       | 50.00      |          |          |
| -0100       | 50.02      |          |          |
| -0110       | 49.96      |          |          |
| -0120       | 49.96      |          |          |
| -0130       | 50.00      |          |          |
| -0140       | 50.00      |          |          |

Continued on Page



1/27/05

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Read and Understood By

Signed

Date

Project \_\_\_\_\_  
Continued from Page \_\_\_\_\_

| <u>Sample ID</u> | <u>Weight (g)</u> | <u>Analysis</u> | <u>Comments</u> |
|------------------|-------------------|-----------------|-----------------|
| 117383-015 D     | 50.04             | TEHM            |                 |
| -016 D           | 49.96             |                 |                 |
| -017 D           | 50.05             |                 | MSS             |
| -MS              | 49.93             |                 |                 |
| -MSD             | 50.00             |                 |                 |
| -LCS             | 49.98             |                 |                 |
| -MB              | 49.99             |                 |                 |

Continued on Page

Read and Understood By


Signed

Date

01/27/0546  
Date

| SAMPLE ID    | WEIGHT (G) | ANALYSIS | COMMENTS                |
|--------------|------------|----------|-------------------------|
| 177390-001 A | 50.02      | TEHM     |                         |
| -002 A       | 50.00      |          |                         |
| -003 A       | 50.04      |          |                         |
| -004 A       | 50.00      |          | MSS                     |
| -MS          | 50.03      |          |                         |
| -MSD         | 50.02      |          |                         |
| -LCS         | 50.04      |          | EM4425B                 |
| -MB          | 50.04      |          |                         |
| 177403-005   | 50.00      | TEHM     | COMP-001, 002, 003, 004 |
| 177394-001   | 29.96      | 8081     | MSS/COMP A, B, C, D     |
| -MS          | 29.95      |          |                         |
| -MSD         | 29.95      |          |                         |
| -LCS         | 30.00      |          | EM4425B                 |
| -MB          | 30.00      |          |                         |
| 177394-001   | 29.98      | PCB      | MSS/COMP A, B, C, D     |
| -MS          | 30.01      |          |                         |
| -MSD         | 30.02      |          |                         |
| -LCS         | 30.03      |          | EM4425B                 |
| -MB          | 30.02      |          |                         |
| 177394-001   | 29.98      | 8270     | MSS/COMP ABCD           |
| -MS          | 30.00      |          |                         |
| -MSD         | 29.95      |          |                         |
| -LCS         | 30.05      |          | EM4425B                 |
| -MB          | 30.02      |          |                         |

Continued on Page

  
 Signed

 1/28/05  
 Date

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Read and Understood By

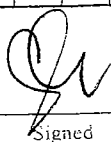
Signed

Date



| SAMPLE ID   | WEIGHT (g) | ANALYSIS | COMMENTS |
|-------------|------------|----------|----------|
| 177309-013A | 50.12      | TEH      |          |
| -014A       | 50.48      |          |          |
| -015A       | 50.04      |          |          |
| -016A       | 50.29      |          | MSS      |
| -MS         | 50.34      |          |          |
| -MSD        | 50.50      |          |          |
| -LCS        | 50.43      |          | EM49258  |
| -MB         | 50.06      |          | ↓        |
| 177433-001A | 50.48      | TEHM     |          |

Continued on Page \_\_\_\_\_

  
Signed

1/31/05  
Date

Read and Understood By

Signed

Date

Curtis & Tompkins Laboratories  
MDL Summary for EPA 8015B Soil SHAKER TABLE

| Analyte            | Units | GC11A         | GC13B         | GC15B          | GC17A         |
|--------------------|-------|---------------|---------------|----------------|---------------|
| JP-5 C10-C16       | mg/Kg | 01/25/05 0.66 | 01/25/05 0.62 | 01/26/05 0.57  | 01/26/05 0.61 |
| Jet Fuel A C10-C16 | mg/Kg | 01/25/04 0.66 | 01/25/04 0.62 | 01/26/04 0.57  | 01/26/04 0.61 |
| Diesel C10-C20     | mg/Kg |               | 10/20/04 0.30 | 10/20/04 0.29  | 10/20/04 0.20 |
| Diesel C10-C22     | mg/Kg | 10/26/04 0.57 | 10/20/04 0.30 | 10/20/04 0.30  | 10/20/04 0.19 |
| Diesel C10-C24     | mg/Kg | 10/26/04 0.55 | 10/20/04 0.31 | 10/20/04 0.29  | 10/20/04 0.21 |
| Diesel C10-C28     | mg/Kg | 10/26/04 0.68 | 10/20/04 0.32 | 10/20/04 0.30  | 10/20/04 0.40 |
| Diesel C12-C28     | mg/Kg |               | 10/20/04 0.32 |                |               |
| Diesel C12-C36     | mg/Kg | 10/26/04 0.60 | 10/20/04 0.32 |                |               |
| Diesel C12-C32     | mg/Kg |               |               | 10/20/04 0.31  | 10/20/04 0.50 |
| Diesel C12-C24     | mg/Kg | 10/26/04 0.42 | 10/20/04 0.31 | 10/20/04 0.29  | 10/20/04 0.21 |
| Diesel C12-C22     | mg/Kg | 10/26/04 0.44 | 10/20/04 0.31 | 10/20/04 0.30  | 10/20/04 0.20 |
| Motor Oil C20-C36  | mg/Kg | 04/06/04 2.4  | 04/10/04 0.65 | 04/10/04 0.68  | 03/30/04 0.32 |
| Motor Oil C22-C36  | mg/Kg | 04/06/04 2.4  | 04/10/04 0.54 | 04/10/04 0.71  | 03/30/04 0.32 |
| Motor Oil C24-C36  | mg/Kg | 04/06/04 2.4  | 04/10/04 0.65 | 04/10/04 0.80  | 03/30/04 0.30 |
| Motor Oil C22-C32  | mg/Kg | 04/06/04 2.6  | 04/10/04 0.64 | 04/10/04 0.54  | 03/30/04 0.31 |
| Hexacosane         | mg/Kg | 09/20/03 0.17 | 08/15/03 0.11 | 08/16/03 0.069 | 09/05/03 0.17 |



## **METALS**

### California Title 26 Metals

|           |                   |           |              |
|-----------|-------------------|-----------|--------------|
| Lab #:    | 177403            | Location: | Presidio BB3 |
| Client:   | Treadwell & Rollo | Prep:     | EPA 3050B    |
| Project#: | 2893.12           | Analysis: | EPA 6010B    |
| Field ID: | COMP BB3-RA/B     | Batch#:   | 98751        |
| Lab ID:   | 177403-005        | Sampled:  | 01/28/05     |
| Matrix:   | Soil              | Received: | 01/28/05     |
| Units:    | mg/Kg             | Prepared: | 01/30/05     |
| Basis:    | dry               | Analyzed: | 01/31/05     |

Moisture: 8%

| Analyte    | Result | RL   | Diln Fac |
|------------|--------|------|----------|
| Antimony   | ND     | 3.1  | 1.000    |
| Arsenic    | 3.1    | 0.26 | 1.000    |
| Barium     | 400    | 0.52 | 1.000    |
| Beryllium  | 0.64   | 0.10 | 1.000    |
| Cadmium    | 0.37   | 0.26 | 1.000    |
| Chromium   | 12     | 0.52 | 1.000    |
| Cobalt     | 7.3    | 1.0  | 1.000    |
| Copper     | 16     | 0.52 | 1.000    |
| Iron       | 18,000 | 26   | 5.000    |
| Lead       | 13     | 0.16 | 1.000    |
| Manganese  | 440    | 0.52 | 1.000    |
| Molybdenum | ND     | 1.0  | 1.000    |
| Nickel     | 19     | 1.0  | 1.000    |
| Selenium   | ND     | 0.26 | 1.000    |
| Silver     | ND     | 0.26 | 1.000    |
| Thallium   | ND     | 0.26 | 1.000    |
| Vanadium   | 24     | 0.52 | 1.000    |
| Zinc       | 69     | 1.0  | 1.000    |

ND= Not Detected  
 RL= Reporting Limit  
 Page 1 of 1

# Batch QC Report

| California Title 26 Metals |                   |           |              |
|----------------------------|-------------------|-----------|--------------|
| Lab #:                     | 177403            | Location: | Presidio BB3 |
| Client:                    | Treadwell & Rollo | Prep:     | EPA 3050B    |
| Project#:                  | 2893.12           | Analysis: | EPA 6010B    |
| Type:                      | BLANK             | Diln Fac: | 1.000        |
| Lab ID:                    | QC281077          | Batch#:   | 98751        |
| Matrix:                    | Soil              | Prepared: | 01/30/05     |
| Units:                     | mg/Kg             | Analyzed: | 01/31/05     |
| Basis:                     | as received       |           |              |

| Analyte    | Result | RL   |
|------------|--------|------|
| Antimony   | ND     | 3.0  |
| Arsenic    | ND     | 0.25 |
| Barium     | ND     | 0.50 |
| Beryllium  | ND     | 0.10 |
| Cadmium    | ND     | 0.25 |
| Chromium   | ND     | 0.50 |
| Cobalt     | ND     | 1.0  |
| Copper     | ND     | 0.50 |
| Iron       | ND     | 5.0  |
| Lead       | ND     | 0.15 |
| Manganese  | ND     | 0.50 |
| Molybdenum | ND     | 1.0  |
| Nickel     | ND     | 1.0  |
| Selenium   | ND     | 0.25 |
| Silver     | ND     | 0.25 |
| Thallium   | ND     | 0.25 |
| Vanadium   | ND     | 0.50 |
| Zinc       | ND     | 1.0  |

**Batch QC Report**

| California Title 26 Metals |                   |           |              |
|----------------------------|-------------------|-----------|--------------|
| Lab #:                     | 177403            | Location: | Presidio BB3 |
| Client:                    | Treadwell & Rollo | Prep:     | EPA 3050B    |
| Project#:                  | 2893.12           | Analysis: | EPA 6010B    |
| Matrix:                    | Soil              | Batch#:   | 98751        |
| Units:                     | mg/Kg             | Prepared: | 01/30/05     |
| Basis:                     | as received       | Analyzed: | 01/31/05     |
| Diln Fac:                  | 1.000             |           |              |

Type: BS Lab ID: QC281078

| Analyte    | Spiked | Result | %REC | Limits |
|------------|--------|--------|------|--------|
| Antimony   | 100.0  | 107.5  | 108  | 75-125 |
| Arsenic    | 50.00  | 51.00  | 102  | 75-125 |
| Barium     | 100.0  | 97.00  | 97   | 75-125 |
| Beryllium  | 2.500  | 2.665  | 107  | 75-125 |
| Cadmium    | 10.00  | 9.750  | 98   | 75-125 |
| Chromium   | 100.0  | 103.5  | 104  | 75-125 |
| Cobalt     | 25.00  | 25.60  | 102  | 75-125 |
| Copper     | 12.50  | 13.45  | 108  | 75-125 |
| Iron       | 1,000  | 1,022  | 102  | 75-125 |
| Lead       | 100.0  | 103.0  | 103  | 75-125 |
| Manganese  | 25.00  | 25.65  | 103  | 75-125 |
| Molybdenum | 20.00  | 22.05  | 110  | 75-125 |
| Nickel     | 25.00  | 24.50  | 98   | 75-125 |
| Selenium   | 50.00  | 50.50  | 101  | 75-125 |
| Silver     | 10.00  | 10.20  | 102  | 75-125 |
| Thallium   | 50.00  | 48.75  | 98   | 75-125 |
| Vanadium   | 25.00  | 26.40  | 106  | 75-125 |
| Zinc       | 25.00  | 24.70  | 99   | 75-125 |

Type: BSD Lab ID: QC281079

| Analyte    | Spiked | Result | %REC | Limits | RPD | Lim |
|------------|--------|--------|------|--------|-----|-----|
| Antimony   | 100.0  | 107.5  | 108  | 75-125 | 0   | 30  |
| Arsenic    | 50.00  | 51.00  | 102  | 75-125 | 0   | 30  |
| Barium     | 100.0  | 96.50  | 97   | 75-125 | 1   | 30  |
| Beryllium  | 2.500  | 2.665  | 107  | 75-125 | 0   | 30  |
| Cadmium    | 10.00  | 9.750  | 98   | 75-125 | 0   | 30  |
| Chromium   | 100.0  | 103.5  | 104  | 75-125 | 0   | 30  |
| Cobalt     | 25.00  | 25.65  | 103  | 75-125 | 0   | 30  |
| Copper     | 12.50  | 13.40  | 107  | 75-125 | 0   | 30  |
| Iron       | 1,000  | 1,024  | 102  | 75-125 | 0   | 30  |
| Lead       | 100.0  | 102.5  | 103  | 75-125 | 0   | 30  |
| Manganese  | 25.00  | 25.65  | 103  | 75-125 | 0   | 30  |
| Molybdenum | 20.00  | 22.20  | 111  | 75-125 | 1   | 30  |
| Nickel     | 25.00  | 24.45  | 98   | 75-125 | 0   | 30  |
| Selenium   | 50.00  | 50.50  | 101  | 75-125 | 0   | 30  |
| Silver     | 10.00  | 10.15  | 102  | 75-125 | 0   | 30  |
| Thallium   | 50.00  | 49.00  | 98   | 75-125 | 1   | 30  |
| Vanadium   | 25.00  | 26.35  | 105  | 75-125 | 0   | 30  |
| Zinc       | 25.00  | 24.65  | 99   | 75-125 | 0   | 30  |



| California Title 26 Metals |                   |           |              |
|----------------------------|-------------------|-----------|--------------|
| Lab #:                     | 177403            | Location: | Presidio BB3 |
| Client:                    | Treadwell & Rollo | Prep:     | EPA 3050B    |
| Project#:                  | 2893.12           | Analysis: | EPA 6010B    |
| Field ID:                  | COMP BB3-RA/B     | Batch#:   | 98751        |
| MSS Lab ID:                | 177403-005        | Sampled:  | 01/28/05     |
| Matrix:                    | Soil              | Received: | 01/28/05     |
| Units:                     | mg/Kg             | Prepared: | 01/30/05     |
| Basis:                     | dry               | Analyzed: | 01/31/05     |
| Diln Fac:                  | 1.000             |           |              |

Moisture: 8%

Type: MSD  
Lab ID: QC281081

Moisture: 8%

\*= Value outside of QC limits; see narrative  
 NC= Not Calculated  
 NM= Not Meaningful: Sample concentration > 4X spike concentration  
 >LR= Response exceeds instrument's linear range  
 RPD= Relative Percent Difference  
 Page 1 of 1

## Batch QC Report

| California Title 26 Metals |                   |           |              |
|----------------------------|-------------------|-----------|--------------|
| Lab #:                     | 177403            | Location: | Presidio BB3 |
| Client:                    | Treadwell & Rollo | Prep:     | EPA 3050B    |
| Project#:                  | 2893.12           | Analysis: | EPA 6010B    |
| Field ID:                  | COMP BB3-RA/B     | Basis:    | dry          |
| Type:                      | Serial Dilution   | Batch#:   | 98751        |
| MSS Lab ID:                | 177403-005        | Sampled:  | 01/28/05     |
| Lab ID:                    | QC281082          | Received: | 01/28/05     |
| Matrix:                    | Soil              | Analyzed: | 01/31/05     |
| Units:                     | mg/Kg             |           |              |

Moisture: 8%

| Analyte    | MSS Result | MSS RL | Result | RL   | % Diff | Lim | Diln  | Fac |
|------------|------------|--------|--------|------|--------|-----|-------|-----|
| Antimony   | ND         | 3.106  | 1.4 J  | 16   |        | 10  | 5.000 |     |
| Arsenic    | 3.085      | 0.2588 | 2.6    | 1.3  |        | 10  | 5.000 |     |
| Barium     | 399.6      | 0.5176 | 370    | 2.6  | 7      | 10  | 5.000 |     |
| Beryllium  | 0.6418     | 0.1035 | 0.61   | 0.52 | 4      | 10  | 5.000 |     |
| Cadmium    | 0.3722     | 0.2588 | 0.17 J | 1.3  |        | 10  | 5.000 |     |
| Chromium   | 12.01      | 0.5176 | 12     | 2.6  | 1      | 10  | 5.000 |     |
| Cobalt     | 7.350      | 1.035  | 7.5    | 5.2  | 2      | 10  | 5.000 |     |
| Copper     | 15.99      | 0.5176 | 16     | 2.6  | 0      | 10  | 5.000 |     |
| Iron       | 17,680     | 25.88  | 19,000 | 130  | 8      | 10  | 25.00 |     |
| Lead       | 13.10      | 0.1553 | 13     | 0.78 | 2      | 10  | 5.000 |     |
| Manganese  | 440.5      | 0.5176 | 430    | 2.6  | 2      | 10  | 5.000 |     |
| Molybdenum | ND         | 1.035  | 0.65 J | 5.2  |        | 10  | 5.000 |     |
| Nickel     | 18.63      | 1.035  | 19     | 5.2  | 4      | 10  | 5.000 |     |
| Selenium   | ND         | 0.2588 | ND     | 1.3  |        | 10  | 5.000 |     |
| Silver     | ND         | 0.2588 | ND     | 1.3  |        | 10  | 5.000 |     |
| Thallium   | ND         | 0.2588 | ND     | 1.3  |        | 10  | 5.000 |     |
| Vanadium   | 23.55      | 0.5176 | 24     | 2.6  | 1      | 10  | 5.000 |     |
| Zinc       | 69.36      | 1.035  | 71     | 5.2  | 2      | 10  | 5.000 |     |

J= Estimated value  
ND= Not Detected  
RL= Reporting Limit  
Page 1 of 1

POST DIGEST SPIKE USER REPORT  
Curtis & Tompkins Laboratories  
EPA 6010B

|                         |                         |
|-------------------------|-------------------------|
| Instid : MET07          | Instid : MET07          |
| Seqnum : 75045058019    | Seqnum : 75045058028    |
| Filename : tr261604     | Filename : tr261613     |
| IDF : 1.0               | IDF : 1.0               |
| PDF : 47.62             | PDF : 47.62             |
| Run type : MSS          | Run type : PDS          |
| Samplenum: 177403-005   | Samplenum: QC281083     |
| Matrix : Soil           | Matrix : Soil           |
| Batchnum : 98751        | Batchnum : 98751        |
| Inj : 31-JAN-2005 09:11 | Inj : 31-JAN-2005 10:16 |
| Units : ug/L            |                         |

| Analyte    | MSS                               | Spike Amt         | PDS   | %Rec | Lim    | %Rec | Flags |
|------------|-----------------------------------|-------------------|-------|------|--------|------|-------|
| Aluminum   | *** usable MSS data not found *** |                   |       |      |        |      |       |
| Antimony   | 24.60                             | 2000              | 1070  | 52*  | 75-125 |      | u     |
| Arsenic    | 59.60                             | 1000              | 960.0 | 90   | 75-125 |      | u     |
| Barium     | 7720                              | 2000              | 8930  | 61*  | 75-125 |      | u     |
| Beryllium  | 12.40                             | 50                | 55.10 | 85   | 75-125 |      | u     |
| Cadmium    | 7.190                             | 200               | 176.0 | 84   | 75-125 |      | u     |
| Calcium    | *** usable MSS data not found *** |                   |       |      |        |      |       |
| Chromium   | 232.0                             | 2000              | 1890  | 83   | 75-125 |      | u     |
| Cobalt     | 142.0                             | 500               | 542.0 | 80   | 75-125 |      | u     |
| Copper     | 309.0                             | 250               | 509.0 | 80   | 75-125 |      | u     |
| Iron       | *** usable MSS data not found *** |                   |       |      |        |      |       |
| Lead       | 253.0                             | 2000              | 1920  | 83   | 75-125 |      | u     |
| Magnesium  | *** usable MSS data not found *** |                   |       |      |        |      |       |
| Manganese  | 8510                              | 500               | 8270  | -48  | 75-125 |      | : u   |
| Molybdenum | 14.60                             | 399.9999999999999 | 210.0 | 49*  | 75-125 |      | u     |
| Nickel     | 360.0                             | 500               | 756.0 | 79   | 75-125 |      | u     |
| Selenium   | ND                                | 1000              | 864.0 | 86   | 75-125 |      | u     |
| Silver     | ND                                | 200               | 174.0 | 87   | 75-125 |      | u     |
| Thallium   | ND                                | 1000              | 830.0 | 83   | 75-125 |      | u     |
| Vanadium   | 455.0                             | 500               | 860.0 | 81   | 75-125 |      | u     |
| Zinc       | 1340                              | 500               | 1650  | 62*  | 75-125 |      | u     |
| Titanium   | 4630                              | 1000              | 4820  | 19   | 75-125 |      | :     |

:=recovery not meaningful u=use

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Method: 6010B Standard: Blank KC  
 Run Time: 01/31/05 06:48:46

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | Sb2068 | Sb206A | As1890 | Ba4934 | Be3130 | Cd2265 | Cr2677 |
| Avge | -.004  | .001   | -.000  | .001   | -.270  | .006   | .000   |
| SDev | .004   | .001   | .000   | .000   | .002   | .001   | .000   |
| %RSD | 116.   | 204.   | 36.2   | 17.9   | .609   | 10.1   | 33.1   |
| #1   | -.001  | -.000  | -.000  | .001   | -.269  | .005   | .000   |
| #2   | -.007  | .001   | -.000  | .001   | -.271  | .006   | .000   |
| Elem | Co2286 | Cu3247 | Pb2203 | Pb220A | Mo2020 | Ni2316 | Se1960 |
| Avge | -.000  | .010   | .012   | .012   | .001   | .002   | -.009  |
| SDev | .000   | .000   | .002   | .002   | .000   | .001   | .001   |
| %RSD | 75.0   | .292   | 12.9   | 14.1   | 55.2   | 45.1   | 9.92   |
| #1   | -.000  | .010   | .013   | .013   | .001   | .001   | -.010  |
| #2   | -.001  | .010   | .011   | .011   | .000   | .003   | -.009  |
| Elem | Se196A | Ag3280 | Tl1908 | V_2924 | Zn2138 | Al3082 | Ca3179 |
| Avge | .003   | .000   | -.003  | .000   | .026   | .0308  | .0037  |
| SDev | .000   | .001   | .002   | .000   | .000   | .0001  | .0001  |
| %RSD | 11.0   | 5460.  | 78.1   | 107.   | .217   | .3430  | 1.265  |
| #1   | .003   | -.001  | -.005  | .000   | .026   | .0307  | .0037  |
| #2   | .004   | .001   | -.001  | .001   | .026   | .0309  | .0037  |
| Elem | Fe2714 | Mg2790 | Mn2576 | Ti3349 |        |        |        |
| Avge | -.0009 | .0000  | .002   | .181   |        |        |        |
| SDev | .0002  | .0001  | .000   | .001   |        |        |        |
| %RSD | 24.57  | 92120. | 11.9   | .489   |        |        |        |
| #1   | -.0010 | -.0001 | .002   | .180   |        |        |        |
| #2   | -.0007 | .0001  | .002   | .181   |        |        |        |



Method: 6010B      Standard: cst hi  
 Run Time: 01/31/05 06:53:22

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | Sb2068 | Sb206A | As1890 | Ba4934 | Be3130 | Cd2265 | Cr2677 |
| Avge | 1.02   | .620   | .260   | 13.1   | 2.68   | 1.01   | .213   |
| SDev | .05    | .002   | .006   | .3     | .05    | .02    | .004   |
| %RSD | 4.98   | .273   | 2.17   | 2.04   | 1.98   | 2.04   | 1.95   |
| #1   | .983   | .618   | .264   | 13.3   | 2.71   | 1.02   | .216   |
| #2   | 1.05   | .621   | .256   | 12.9   | 2.64   | .992   | .211   |
| Elem | Co2286 | Cu3247 | Pb2203 | Pb220A | Mo2020 | Ni2316 | Se1960 |
| Avge | .670   | .467   | .814   | .795   | 1.86   | 1.64   | .285   |
| SDev | .013   | .009   | .019   | .009   | .03    | .04    | .007   |
| %RSD | 1.93   | 1.92   | 2.36   | 1.12   | 1.75   | 2.16   | 2.59   |
| #1   | .680   | .474   | .828   | .788   | 1.84   | 1.66   | .291   |
| #2   | .661   | .461   | .800   | .801   | 1.88   | 1.61   | .280   |
| Elem | Se196A | Ag3280 | Tl1908 | V_2924 | Zn2138 | Al3082 | Ca3179 |
| Avge | .329   | .268   | .180   | .817   | .171   | .1383  | .3298  |
| SDev | .003   | .005   | .002   | .015   | .003   | .0024  | .0059  |
| %RSD | .997   | 1.84   | 1.25   | 1.84   | 1.66   | 1.720  | 1.798  |
| #1   | .326   | .272   | .181   | .827   | .173   | .1400  | .3340  |
| #2   | .331   | .265   | .178   | .806   | .169   | .1366  | .3256  |
| Elem | Fe2714 | Mg2790 | Mn2576 | Ti3349 |        |        |        |
| Avge | .1084  | .1635  | 1.04   | 6.31   |        |        |        |
| SDev | .0026  | .0034  | .02    | .11    |        |        |        |
| %RSD | 2.400  | 2.065  | 1.80   | 1.67   |        |        |        |
| #1   | .1102  | .1659  | 1.05   | 6.39   |        |        |        |
| #2   | .1065  | .1611  | 1.03   | 6.24   |        |        |        |

Method: 6010B

Slope = Conc(SIR)/IR

| Element | Wavelength | High std | Low std   | Slope   | Y-intercept | Date Standardized  |
|---------|------------|----------|-----------|---------|-------------|--------------------|
| Sb2068  | 206.831    | Multiple | Standards | 972.605 | 3.55972     | 01/31/05 06:53:22  |
| Sb206A  | 206.832    | Multiple | Standards | 1583.49 | -.913671    | 01/31/05 06:53:22  |
| As1890  | 189.042    | Multiple | Standards | 1925.57 | .615642     | 01/31/05 06:53:22  |
| Ba4934  | 493.409    | Multiple | Standards | 76.3609 | -.078171    | 01/31/05 06:53:22  |
| Be3130  | 313.042    | Multiple | Standards | 32.7617 | 8.85602     | 01/31/05 06:53:22  |
| Cd2265  | 226.502    | Multiple | Standards | 99.8684 | -.588717    | 01/31/05 06:53:22  |
| Cr2677  | 267.716    | Multiple | Standards | 938.755 | -.291573    | 01/31/05 06:53:22  |
| Co2286  | 228.616    | Multiple | Standards | 747.175 | .348512     | 01/31/05 06:53:22  |
| Cu3247  | 324.754    | Multiple | Standards | 437.363 | -4.40018    | 01/31/05 06:53:22  |
| Pb2203  | 220.351    | Multiple | Standards | 624.245 | -7.56897    | 01/31/05 06:53:22  |
| Pb220A  | 220.352    | Multiple | Standards | 632.939 | -7.38513    | 01/31/05 06:53:22  |
| Mo2020  | 202.030    | Multiple | Standards | 537.615 | -.338791    | 01/31/05 06:53:22  |
| Ni2316  | 231.604    | Multiple | Standards | 305.512 | -.597759    | 01/31/05 06:53:22  |
| Se1960  | 196.021    | Multiple | Standards | 1697.05 | 15.8013     | 01/31/05 06:53:22  |
| Se196A  | 196.022    | Multiple | Standards | 1535.88 | -5.32010    | 01/31/05 06:53:22  |
| Ag3280  | 328.068    | Multiple | Standards | 373.458 | -.007255    | 01/31/05 06:53:22  |
| Tl1908  | 190.864    | Multiple | Standards | 2760.48 | 8.01520     | 01/31/05 06:53:22  |
| V_2924  | 292.402    | Multiple | Standards | 612.545 | -.184939    | 01/31/05 06:53:22  |
| Zn2138  | 213.856    | Multiple | Standards | 713.370 | -18.7098    | 01/31/05 06:53:22  |
| Al3082  | 308.215    | Multiple | Standards | 9476.06 | -291.744    | 01/31/05 06:53:22  |
| Ca3179  | 317.933    | Multiple | Standards | 6133.38 | -22.7003    | 01/31/05 06:53:22  |
| Fe2714  | 271.441    | Multiple | Standards | 9581.69 | 8.49121     | 01/31/05 06:53:22  |
| Mg2790  | 279.079    | Multiple | Standards | 12228.4 | -.001716    | 01/31/05 06:53:22  |
| Mn2576  | 257.610    | Multiple | Standards | 96.2132 | -.159163    | 01/31/05 06:53:22  |
| Pb sum  | 220.353    | NONE     | NONE      | 1.00000 | .000000     | *01/31/05 06:53:22 |
| Sb sum  | 206.838    | NONE     | NONE      | 1.00000 | .000000     | *01/31/05 06:53:22 |
| Se sum  | 196.026    | NONE     | NONE      | 1.00000 | .000000     | *01/31/05 06:53:22 |
| Ti3349  | 334.941    | Multiple | Standards | 163.118 | -29.4493    | 01/31/05 06:53:22  |

INITIAL CALIBRATION CHECK STANDARD  
Curtis & Tompkins Laboratories

Instdid : MET07  
Seqnum : 75045058001

Run Name :  
Filename : tr261585

Injected : 31-JAN-2005 06:58  
Caltpe :

Standards: 04WS2257

| Analyte    | SpkAmt   | QuantAmt | Units | %D | Max | %D | Flags |
|------------|----------|----------|-------|----|-----|----|-------|
| Aluminum   | 1000.000 | 983.0000 | ug/L  | -2 |     | 5  |       |
| Antimony   | 1000.000 | 1000.000 | ug/L  | 0  |     | 5  |       |
| Arsenic    | 500.0000 | 489.0000 | ug/L  | -2 |     | 5  |       |
| Barium     | 1000.000 | 980.0000 | ug/L  | -2 |     | 5  |       |
| Beryllium  | 100.0000 | 98.30000 | ug/L  | -2 |     | 5  |       |
| Cadmium    | 100.0000 | 97.80000 | ug/L  | -2 |     | 5  |       |
| Calcium    | 2000.000 | 1975.000 | ug/L  | -1 |     | 5  |       |
| Chromium   | 200.0000 | 196.0000 | ug/L  | -2 |     | 5  |       |
| Cobalt     | 500.0000 | 491.0000 | ug/L  | -2 |     | 5  |       |
| Copper     | 200.0000 | 197.0000 | ug/L  | -2 |     | 5  |       |
| Iron       | 1000.000 | 987.0000 | ug/L  | -1 |     | 5  |       |
| Lead       | 500.0000 | 493.0000 | ug/L  | -1 |     | 5  |       |
| Magnesium  | 2000.000 | 1971.000 | ug/L  | -1 |     | 5  |       |
| Manganese  | 100.0000 | 98.40000 | ug/L  | -2 |     | 5  |       |
| Molybdenum | 1000.000 | 997.0000 | ug/L  | 0  |     | 5  |       |
| Nickel     | 500.0000 | 489.0000 | ug/L  | -2 |     | 5  |       |
| Selenium   | 500.0000 | 494.0000 | ug/L  | -1 |     | 5  |       |
| Silver     | 100.0000 | 97.70000 | ug/L  | -2 |     | 5  |       |
| Thallium   | 500.0000 | 491.0000 | ug/L  | -2 |     | 5  |       |
| Titanium   | 1000.000 | 983.0000 | ug/L  | -2 |     | 5  |       |
| Vanadium   | 500.0000 | 491.0000 | ug/L  | -2 |     | 5  |       |
| Zinc       | 100.0000 | 97.90000 | ug/L  | -2 |     | 5  |       |

SECOND SOURCE CALIBRATION VERIFICATION  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 75045058002

Run Name :  
Filename : tr261586

Injected : 31-JAN-2005 07:04  
Caltype :

Standards: 05WS0014

| Analyte    | SpkAmt   | QuantAmt | Units | %D | Max | Flags |
|------------|----------|----------|-------|----|-----|-------|
| Aluminum   | 500.0000 | 494.5000 | ug/L  | -1 | 10  |       |
| Antimony   | 500.0000 | 546.0000 | ug/L  | 9  | 10  |       |
| Arsenic    | 250.0000 | 249.0000 | ug/L  | 0  | 10  |       |
| Barium     | 500.0000 | 495.0000 | ug/L  | -1 | 10  |       |
| Beryllium  | 50.00000 | 50.60000 | ug/L  | 1  | 10  |       |
| Cadmium    | 50.00000 | 50.50000 | ug/L  | 1  | 10  |       |
| Calcium    | 1000.000 | 1033.000 | ug/L  | 3  | 10  |       |
| Chromium   | 100.0000 | 102.0000 | ug/L  | 2  | 10  |       |
| Cobalt     | 250.0000 | 247.0000 | ug/L  | -1 | 10  |       |
| Copper     | 100.0000 | 105.0000 | ug/L  | 5  | 10  |       |
| Iron       | 500.0000 | 517.3000 | ug/L  | 3  | 10  |       |
| Lead       | 250.0000 | 249.0000 | ug/L  | 0  | 10  |       |
| Magnesium  | 1000.000 | 1018.000 | ug/L  | 2  | 10  |       |
| Manganese  | 50.00000 | 49.50000 | ug/L  | -1 | 10  |       |
| Molybdenum | 500.0000 | 532.0000 | ug/L  | 6  | 10  |       |
| Nickel     | 250.0000 | 250.0000 | ug/L  | 0  | 10  |       |
| Selenium   | 250.0000 | 249.0000 | ug/L  | 0  | 10  |       |
| Silver     | 50.00000 | 50.50000 | ug/L  | 1  | 10  |       |
| Thallium   | 250.0000 | 244.0000 | ug/L  | -2 | 10  |       |
| Titanium   | 500.0000 | 501.0000 | ug/L  | 0  | 10  |       |
| Vanadium   | 250.0000 | 250.0000 | ug/L  | 0  | 10  |       |
| Zinc       | 50.00000 | 50.80000 | ug/L  | 2  | 10  |       |

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 75045058004

Run Name :  
Filename : tr261588

Injected : 31-JAN-2005 07:16  
Caltpe :

Standards: 04WS2346

| Analyte    | SpkAmt   | QuantAmt | Units | %D  | Max | %D | Flags |
|------------|----------|----------|-------|-----|-----|----|-------|
| Aluminum   | 100.0000 | 101.3000 | ug/L  | 1   | 50  |    |       |
| Antimony   | 60.00000 | 69.90000 | ug/L  | 17  | 50  |    |       |
| Arsenic    | 5.000000 | 3.620000 | ug/L  | -28 | 50  |    |       |
| Barium     | 10.00000 | 9.820000 | ug/L  | -2  | 50  |    |       |
| Beryllium  | 2.000000 | 1.990000 | ug/L  | -1  | 50  |    |       |
| Cadmium    | 5.000000 | 4.910000 | ug/L  | -2  | 50  |    |       |
| Calcium    | 200.0000 | 219.2000 | ug/L  | 10  | 50  |    |       |
| Chromium   | 10.00000 | 10.10000 | ug/L  | 1   | 50  |    |       |
| Cobalt     | 20.00000 | 19.70000 | ug/L  | -2  | 50  |    |       |
| Copper     | 10.00000 | 11.30000 | ug/L  | 13  | 50  |    |       |
| Iron       | 100.0000 | 104.0000 | ug/L  | 4   | 50  |    |       |
| Lead       | 3.000000 | 2.200000 | ug/L  | -27 | 50  |    |       |
| Magnesium  | 200.0000 | 209.0000 | ug/L  | 5   | 50  |    |       |
| Manganese  | 10.00000 | 9.990000 | ug/L  | 0   | 50  |    |       |
| Molybdenum | 20.00000 | 22.70000 | ug/L  | 14  | 50  |    |       |
| Nickel     | 20.00000 | 20.00000 | ug/L  | 0   | 50  |    |       |
| Selenium   | 5.000000 | 6.300000 | ug/L  | 26  | 50  |    |       |
| Silver     | 5.000000 | 4.740000 | ug/L  | -5  | 50  |    |       |
| Thallium   | 5.000000 | 3.060000 | ug/L  | -39 | 50  |    |       |
| Vanadium   | 10.00000 | 10.10000 | ug/L  | 1   | 50  |    |       |
| Zinc       | 20.00000 | 19.90000 | ug/L  | -1  | 50  |    |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 75045058014

Run Name :  
Filename : tr261598

IDF : 1.0  
Injected : 31-JAN-2005 08:21  
Caltpe :

Standards: 05WS0015

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D Max | %D | Flags |
|------------|-------|----------|----------|-------|--------|----|-------|
| Aluminum   |       | 500.0000 | 474.8000 | ug/L  | -5     | 10 |       |
| Antimony   |       | 500.0000 | 536.0000 | ug/L  | 7      | 10 |       |
| Arsenic    |       | 250.0000 | 247.0000 | ug/L  | -1     | 10 |       |
| Barium     |       | 500.0000 | 470.0000 | ug/L  | -6     | 10 |       |
| Beryllium  |       | 50.00000 | 51.30000 | ug/L  | 3      | 10 |       |
| Cadmium    |       | 50.00000 | 48.90000 | ug/L  | -2     | 10 |       |
| Calcium    |       | 1000.000 | 1073.000 | ug/L  | 7      | 10 |       |
| Chromium   |       | 100.0000 | 102.0000 | ug/L  | 2      | 10 |       |
| Cobalt     |       | 250.0000 | 250.0000 | ug/L  | 0      | 10 |       |
| Copper     |       | 100.0000 | 105.0000 | ug/L  | 5      | 10 |       |
| Iron       |       | 500.0000 | 522.6000 | ug/L  | 5      | 10 |       |
| Lead       |       | 250.0000 | 258.0000 | ug/L  | 3      | 10 |       |
| Magnesium  |       | 1000.000 | 1027.000 | ug/L  | 3      | 10 |       |
| Manganese  |       | 50.00000 | 50.00000 | ug/L  | 0      | 10 |       |
| Molybdenum |       | 500.0000 | 536.0000 | ug/L  | 7      | 10 |       |
| Nickel     |       | 250.0000 | 245.0000 | ug/L  | -2     | 10 |       |
| Selenium   |       | 250.0000 | 249.0000 | ug/L  | 0      | 10 |       |
| Silver     |       | 50.00000 | 50.90000 | ug/L  | 2      | 10 |       |
| Thallium   |       | 250.0000 | 234.0000 | ug/L  | -6     | 10 |       |
| Titanium   |       | 500.0000 | 499.0000 | ug/L  | 0      | 10 |       |
| Vanadium   |       | 250.0000 | 251.0000 | ug/L  | 0      | 10 |       |
| Zinc       |       | 50.00000 | 51.30000 | ug/L  | 3      | 10 |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 75045058026

Run Name :  
Filename : tr261611

IDF : 1.0  
Injected : 31-JAN-2005 10:04  
Caltype :

Standards: 04WS2419

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D Max | %D | Flags |
|------------|-------|----------|----------|-------|--------|----|-------|
| Aluminum   |       | 750.0000 | 701.3000 | ug/L  | -6     | 10 |       |
| Antimony   |       | 750.0000 | 789.0000 | ug/L  | 5      | 10 |       |
| Arsenic    |       | 375.0000 | 367.0000 | ug/L  | -2     | 10 |       |
| Barium     |       | 750.0000 | 722.0000 | ug/L  | -4     | 10 |       |
| Beryllium  |       | 75.00000 | 73.20000 | ug/L  | -2     | 10 |       |
| Cadmium    |       | 75.00000 | 73.80000 | ug/L  | -2     | 10 |       |
| Calcium    |       | 1500.000 | 1450.000 | ug/L  | -3     | 10 |       |
| Chromium   |       | 150.0000 | 146.0000 | ug/L  | -3     | 10 |       |
| Cobalt     |       | 375.0000 | 357.0000 | ug/L  | -5     | 10 |       |
| Copper     |       | 150.0000 | 150.0000 | ug/L  | 0      | 10 |       |
| Iron       |       | 750.0000 | 730.8000 | ug/L  | -3     | 10 |       |
| Lead       |       | 375.0000 | 367.0000 | ug/L  | -2     | 10 |       |
| Magnesium  |       | 1500.000 | 1456.000 | ug/L  | -3     | 10 |       |
| Manganese  |       | 75.00000 | 71.60000 | ug/L  | -5     | 10 |       |
| Molybdenum |       | 750.0000 | 731.0000 | ug/L  | -3     | 10 |       |
| Nickel     |       | 375.0000 | 364.0000 | ug/L  | -3     | 10 |       |
| Selenium   |       | 375.0000 | 365.0000 | ug/L  | -3     | 10 |       |
| Silver     |       | 75.00000 | 73.80000 | ug/L  | -2     | 10 |       |
| Thallium   |       | 375.0000 | 353.0000 | ug/L  | -6     | 10 |       |
| Titanium   |       | 750.0000 | 724.0000 | ug/L  | -3     | 10 |       |
| Vanadium   |       | 375.0000 | 359.0000 | ug/L  | -4     | 10 |       |
| Zinc       |       | 75.00000 | 71.60000 | ug/L  | -5     | 10 |       |

CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 75045058038

Run Name :  
Filename : tr261623

IDF : 1.0  
Injected : 31-JAN-2005 11:15  
Caltype :

Standards: 05WS0015

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D  | Max | %D | Flags |
|------------|-------|----------|----------|-------|-----|-----|----|-------|
| Aluminum   |       | 500.0000 | 507.4000 | ug/L  | 1   |     | 10 |       |
| Antimony   |       | 500.0000 | 518.0000 | ug/L  | 4   |     | 10 |       |
| Arsenic    |       | 250.0000 | 250.0000 | ug/L  | 0   |     | 10 |       |
| Barium     |       | 500.0000 | 498.0000 | ug/L  | 0   |     | 10 |       |
| Beryllium  |       | 50.00000 | 50.10000 | ug/L  | 0   |     | 10 |       |
| Cadmium    |       | 50.00000 | 50.80000 | ug/L  | 2   |     | 10 |       |
| Calcium    |       | 1000.000 | 1013.000 | ug/L  | 1   |     | 10 |       |
| Chromium   |       | 100.0000 | 102.0000 | ug/L  | 2   |     | 10 |       |
| Cobalt     |       | 250.0000 | 246.0000 | ug/L  | -2  |     | 10 |       |
| Copper     |       | 100.0000 | 104.0000 | ug/L  | 4   |     | 10 |       |
| Iron       |       | 500.0000 | 497.3000 | ug/L  | -1  |     | 10 |       |
| Lead       |       | 250.0000 | 250.0000 | ug/L  | 0   |     | 10 |       |
| Magnesium  |       | 1000.000 | 1002.000 | ug/L  | 0   |     | 10 |       |
| Manganese  |       | 50.00000 | 49.20000 | ug/L  | -2  |     | 10 |       |
| Molybdenum |       | 500.0000 | 498.0000 | ug/L  | 0   |     | 10 |       |
| Nickel     |       | 250.0000 | 251.0000 | ug/L  | 0   |     | 10 |       |
| Selenium   |       | 250.0000 | 248.0000 | ug/L  | -1  |     | 10 |       |
| Silver     |       | 50.00000 | 50.60000 | ug/L  | 1   |     | 10 |       |
| Thallium   |       | 250.0000 | 226.0000 | ug/L  | -10 |     | 10 |       |
| Titanium   |       | 500.0000 | 506.0000 | ug/L  | 1   |     | 10 |       |
| Vanadium   |       | 250.0000 | 250.0000 | ug/L  | 0   |     | 10 |       |
| Zinc       |       | 50.00000 | 50.90000 | ug/L  | 2   |     | 10 |       |



CONTINUING CALIBRATION REPORT  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 75045058044

Run Name :  
Filename : tr261629

IDF : 1.0  
Injected : 31-JAN-2005 12:06  
Caltpe :

Standards: 04WS2419

| Analyte    | RF/CF | SpkAmt   | QuantAmt | Units | %D Max | %D | Flags |
|------------|-------|----------|----------|-------|--------|----|-------|
| Aluminum   |       | 750.0000 | 739.1000 | ug/L  | -1     | 10 |       |
| Antimony   |       | 750.0000 | 773.0000 | ug/L  | 3      | 10 |       |
| Arsenic    |       | 375.0000 | 373.0000 | ug/L  | -1     | 10 |       |
| Barium     |       | 750.0000 | 726.0000 | ug/L  | -3     | 10 |       |
| Beryllium  |       | 75.00000 | 73.70000 | ug/L  | -2     | 10 |       |
| Cadmium    |       | 75.00000 | 75.80000 | ug/L  | 1      | 10 |       |
| Calcium    |       | 1500.000 | 1458.000 | ug/L  | -3     | 10 |       |
| Chromium   |       | 150.0000 | 148.0000 | ug/L  | -1     | 10 |       |
| Cobalt     |       | 375.0000 | 360.0000 | ug/L  | -4     | 10 |       |
| Copper     |       | 150.0000 | 148.0000 | ug/L  | -1     | 10 |       |
| Iron       |       | 750.0000 | 748.3000 | ug/L  | 0      | 10 |       |
| Lead       |       | 375.0000 | 367.0000 | ug/L  | -2     | 10 |       |
| Magnesium  |       | 1500.000 | 1507.000 | ug/L  | 0      | 10 |       |
| Manganese  |       | 75.00000 | 71.30000 | ug/L  | -5     | 10 |       |
| Molybdenum |       | 750.0000 | 724.0000 | ug/L  | -3     | 10 |       |
| Nickel     |       | 375.0000 | 372.0000 | ug/L  | -1     | 10 |       |
| Selenium   |       | 375.0000 | 368.0000 | ug/L  | -2     | 10 |       |
| Silver     |       | 75.00000 | 74.10000 | ug/L  | -1     | 10 |       |
| Thallium   |       | 375.0000 | 354.0000 | ug/L  | -6     | 10 |       |
| Titanium   |       | 750.0000 | 724.0000 | ug/L  | -3     | 10 |       |
| Vanadium   |       | 375.0000 | 360.0000 | ug/L  | -4     | 10 |       |
| Zinc       |       | 75.00000 | 71.50000 | ug/L  | -5     | 10 |       |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 75045058003  
Filename: tr261587

TJA Trace ICP  
Run Name:  
Run Type: ICB

Injected: 31-JAN-2005 07:08

| Analyte    | Quant    | Amt      | RL | Units | Req | Flags |
|------------|----------|----------|----|-------|-----|-------|
| Aluminum   | ND       | 100.0000 |    | ug/L  | <   | RL    |
| Antimony   | ND       | 60.00000 |    | ug/L  | <   | RL    |
| Arsenic    | ND       | 5.000000 |    | ug/L  | <   | RL    |
| Barium     | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Beryllium  | ND       | 2.000000 |    | ug/L  | <   | RL    |
| Cadmium    | ND       | 5.000000 |    | ug/L  | <   | RL    |
| Calcium    | ND       | 500.0000 |    | ug/L  | <   | RL    |
| Chromium   | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Cobalt     | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Copper     | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Iron       | ND       | 100.0000 |    | ug/L  | <   | RL    |
| Lead       | ND       | 3.000000 |    | ug/L  | <   | RL    |
| Magnesium  | ND       | 500.0000 |    | ug/L  | <   | RL    |
| Manganese  | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Molybdenum | [6.5100] | 20.00000 |    | ug/L  | <   | RL    |
| Nickel     | ND       | 20.00000 |    | ug/L  | <   | RL    |
| Selenium   | ND       | 5.000000 |    | ug/L  | <   | RL    |
| Silver     | ND       | 5.000000 |    | ug/L  | <   | RL    |
| Thallium   | ND       | 5.000000 |    | ug/L  | <   | RL    |
| Titanium   | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Vanadium   | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Zinc       | ND       | 20.00000 |    | ug/L  | <   | RL    |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 75045058015  
Filename: tr261600

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 31-JAN-2005 08:43

| Analyte    | Quant    | Amt      | RL | Units | Req | Flags |
|------------|----------|----------|----|-------|-----|-------|
| Aluminum   | ND       | 100.0000 |    | ug/L  | <   | RL    |
| Antimony   | ND       | 60.00000 |    | ug/L  | <   | RL    |
| Arsenic    | ND       | 5.000000 |    | ug/L  | <   | RL    |
| Barium     | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Beryllium  | ND       | 2.000000 |    | ug/L  | <   | RL    |
| Cadmium    | ND       | 5.000000 |    | ug/L  | <   | RL    |
| Calcium    | [19.010] | 500.0000 |    | ug/L  | <   | RL    |
| Chromium   | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Cobalt     | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Copper     | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Iron       | ND       | 100.0000 |    | ug/L  | <   | RL    |
| Lead       | ND       | 3.000000 |    | ug/L  | <   | RL    |
| Magnesium  | ND       | 500.0000 |    | ug/L  | <   | RL    |
| Manganese  | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Molybdenum | ND       | 20.00000 |    | ug/L  | <   | RL    |
| Nickel     | ND       | 20.00000 |    | ug/L  | <   | RL    |
| Selenium   | ND       | 5.000000 |    | ug/L  | <   | RL    |
| Silver     | ND       | 5.000000 |    | ug/L  | <   | RL    |
| Thallium   | ND       | 5.000000 |    | ug/L  | <   | RL    |
| Titanium   | [0.5590] | 10.00000 |    | ug/L  | <   | RL    |
| Vanadium   | ND       | 10.00000 |    | ug/L  | <   | RL    |
| Zinc       | ND       | 20.00000 |    | ug/L  | <   | RL    |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 75045058027  
Filename: tr261612

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 31-JAN-2005 10:12

| Analyte    | Quant    | Amt | RL       | Units | Req | Flags |
|------------|----------|-----|----------|-------|-----|-------|
| Aluminum   | ND       |     | 100.0000 | ug/L  | <   | RL    |
| Antimony   | [11.300] |     | 60.00000 | ug/L  | <   | RL    |
| Arsenic    | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Barium     | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Beryllium  | ND       |     | 2.000000 | ug/L  | <   | RL    |
| Cadmium    | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Calcium    | [18.850] |     | 500.0000 | ug/L  | <   | RL    |
| Chromium   | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Cobalt     | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Copper     | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Iron       | ND       |     | 100.0000 | ug/L  | <   | RL    |
| Lead       | ND       |     | 3.000000 | ug/L  | <   | RL    |
| Magnesium  | ND       |     | 500.0000 | ug/L  | <   | RL    |
| Manganese  | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Molybdenum | [11.600] |     | 20.00000 | ug/L  | <   | RL    |
| Nickel     | ND       |     | 20.00000 | ug/L  | <   | RL    |
| Selenium   | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Silver     | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Thallium   | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Titanium   | [0.2450] |     | 10.00000 | ug/L  | <   | RL    |
| Vanadium   | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Zinc       | ND       |     | 20.00000 | ug/L  | <   | RL    |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 75045058039  
Filename: tr261624

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 31-JAN-2005 11:26

| Analyte    | Quant    | Amt | RL       | Units | Req | Flags |
|------------|----------|-----|----------|-------|-----|-------|
| Aluminum   | ND       |     | 100.0000 | ug/L  | <   | RL    |
| Antimony   | [7.3200] |     | 60.00000 | ug/L  | <   | RL    |
| Arsenic    | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Barium     | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Beryllium  | [0.2660] |     | 2.000000 | ug/L  | <   | RL    |
| Cadmium    | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Calcium    | ND       |     | 500.0000 | ug/L  | <   | RL    |
| Chromium   | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Cobalt     | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Copper     | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Iron       | ND       |     | 100.0000 | ug/L  | <   | RL    |
| Lead       | ND       |     | 3.000000 | ug/L  | <   | RL    |
| Magnesium  | ND       |     | 500.0000 | ug/L  | <   | RL    |
| Manganese  | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Molybdenum | [3.2600] |     | 20.00000 | ug/L  | <   | RL    |
| Nickel     | ND       |     | 20.00000 | ug/L  | <   | RL    |
| Selenium   | [4.8400] |     | 5.000000 | ug/L  | <   | RL    |
| Silver     | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Thallium   | ND       |     | 5.000000 | ug/L  | <   | RL    |
| Titanium   | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Vanadium   | ND       |     | 10.00000 | ug/L  | <   | RL    |
| Zinc       | ND       |     | 20.00000 | ug/L  | <   | RL    |

INSTRUMENT BLANK REPORT  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 75045058045  
Filename: tr261630

TJA Trace ICP  
Run Name:  
Run Type: CCB

Injected: 31-JAN-2005 12:11

| Analyte    | Quant    | Amt      | RL   | Units | Req | Flags |
|------------|----------|----------|------|-------|-----|-------|
| Aluminum   | ND       | 100.0000 | ug/L | <RL   |     |       |
| Antimony   | ND       | 60.00000 | ug/L | <RL   |     |       |
| Arsenic    | ND       | 5.000000 | ug/L | <RL   |     |       |
| Barium     | ND       | 10.00000 | ug/L | <RL   |     |       |
| Beryllium  | ND       | 2.000000 | ug/L | <RL   |     |       |
| Cadmium    | ND       | 5.000000 | ug/L | <RL   |     |       |
| Calcium    | ND       | 500.0000 | ug/L | <RL   |     |       |
| Chromium   | ND       | 10.00000 | ug/L | <RL   |     |       |
| Cobalt     | ND       | 10.00000 | ug/L | <RL   |     |       |
| Copper     | ND       | 10.00000 | ug/L | <RL   |     |       |
| Iron       | [14.250] | 100.0000 | ug/L | <RL   |     |       |
| Lead       | [2.0100] | 3.000000 | ug/L | <RL   |     |       |
| Magnesium  | [18.380] | 500.0000 | ug/L | <RL   |     |       |
| Manganese  | ND       | 10.00000 | ug/L | <RL   |     |       |
| Molybdenum | [4.1300] | 20.00000 | ug/L | <RL   |     |       |
| Nickel     | ND       | 20.00000 | ug/L | <RL   |     |       |
| Selenium   | ND       | 5.000000 | ug/L | <RL   |     |       |
| Silver     | ND       | 5.000000 | ug/L | <RL   |     |       |
| Thallium   | ND       | 5.000000 | ug/L | <RL   |     |       |
| Titanium   | [0.7970] | 10.00000 | ug/L | <RL   |     |       |
| Vanadium   | ND       | 10.00000 | ug/L | <RL   |     |       |
| Zinc       | ND       | 20.00000 | ug/L | <RL   |     |       |

INTERFERENCE CHECK STANDARD A  
Curtis & Tompkins Laboratories

Instrument: MET07  
Seqnum: 75045058005  
Filename: tr261589

TJA Trace ICP  
Run Name:  
Run Type: ICSA

Injected: 31-JAN-2005 07:29

| Analyte    | QuantAmt | RL       | Units | Reg Flags |
|------------|----------|----------|-------|-----------|
| Antimony   | [10.400] | 60.00000 | ug/L  | <RL       |
| Arsenic    | [2.9100] | 5.000000 | ug/L  | <RL       |
| Barium     | [0.0640] | 10.00000 | ug/L  | <RL       |
| Beryllium  | [-0.853] | 2.000000 | ug/L  | <RL       |
| Cadmium    | [2.9100] | 5.000000 | ug/L  | <RL       |
| Chromium   | [3.6100] | 10.00000 | ug/L  | <RL       |
| Cobalt     | [0.6490] | 10.00000 | ug/L  | <RL       |
| Copper     | [-0.642] | 10.00000 | ug/L  | <RL       |
| Lead       | [0.4230] | 3.000000 | ug/L  | <RL       |
| Manganese  | [2.0500] | 10.00000 | ug/L  | <RL       |
| Molybdenum | [1.2500] | 20.00000 | ug/L  | <RL       |
| Nickel     | [2.2300] | 20.00000 | ug/L  | <RL       |
| Selenium   | [-2.890] | 5.000000 | ug/L  | <RL       |
| Silver     | [-0.437] | 5.000000 | ug/L  | <RL       |
| Thallium   | [1.7100] | 5.000000 | ug/L  | <RL       |
| Titanium   | 19.00000 | 10.00000 | ug/L  | <RL       |
| Vanadium   | [-0.908] | 10.00000 | ug/L  | <RL       |
| Zinc       | [6.6300] | 20.00000 | ug/L  | <RL       |

SPIKED INTERFERENTS

| Analyte   | SpikeAmt | QuantAmt | Units | %REC |
|-----------|----------|----------|-------|------|
| Aluminum  | 500000   | 528400   | ug/L  | 106  |
| Calcium   | 500000   | 471000.  | ug/L  | 94   |
| Iron      | 200000   | 187400   | ug/L  | 94   |
| Magnesium | 500000   | 537400   | ug/L  | 107  |

INTERFERENCE CHECK STANDARD AB  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 75045058006

Run Name :  
Filename : tr261590

Injected : 31-JAN-2005 07:33  
Caltpe :

Standards: 05WS0126

| Analyte    | SpkAmt   | QuantAmt | Units | %D  | Max | %D | Flags |
|------------|----------|----------|-------|-----|-----|----|-------|
| Aluminum   | 500000.0 | 511000.0 | ug/L  | 2   |     |    |       |
| Antimony   | 500.0000 | 601.0000 | ug/L  | 20  | 20  |    |       |
| Arsenic    | 500.0000 | 531.0000 | ug/L  | 6   | 20  |    |       |
| Barium     | 500.0000 | 488.0000 | ug/L  | -2  | 20  |    |       |
| Beryllium  | 500.0000 | 509.0000 | ug/L  | 2   | 20  |    |       |
| Cadmium    | 1000.000 | 938.0000 | ug/L  | -6  | 20  |    |       |
| Calcium    | 500000.0 | 459900.0 | ug/L  | -8  |     |    |       |
| Chromium   | 500.0000 | 482.0000 | ug/L  | -4  | 20  |    |       |
| Cobalt     | 500.0000 | 483.0000 | ug/L  | -3  | 20  |    |       |
| Copper     | 500.0000 | 525.0000 | ug/L  | 5   | 20  |    |       |
| Iron       | 200000.0 | 181900.0 | ug/L  | -9  |     |    |       |
| Lead       | 1000.000 | 972.0000 | ug/L  | -3  | 20  |    |       |
| Magnesium  | 500000.0 | 525500.0 | ug/L  | 5   |     |    |       |
| Manganese  | 500.0000 | 476.0000 | ug/L  | -5  | 20  |    |       |
| Molybdenum | 500.0000 | 522.0000 | ug/L  | 4   | 20  |    |       |
| Nickel     | 1000.000 | 905.0000 | ug/L  | -10 | 20  |    |       |
| Selenium   | 500.0000 | 526.0000 | ug/L  | 5   | 20  |    |       |
| Silver     | 1000.000 | 1050.000 | ug/L  | 5   | 20  |    |       |
| Thallium   | 500.0000 | 471.0000 | ug/L  | -6  | 20  |    |       |
| Titanium   | 20000.00 | 21800.00 | ug/L  | 9   |     |    |       |
| Vanadium   | 500.0000 | 489.0000 | ug/L  | -2  | 20  |    |       |
| Zinc       | 1000.000 | 1010.000 | ug/L  | 1   | 20  |    |       |



INTERFERENCE CHECK STANDARD AB  
Curtis & Tompkins Laboratories

Instid : MET07  
Seqnum : 75045058043

Run Name :  
Filename : tr261628

Injected : 31-JAN-2005 11:59  
Caltype :

Standards: 05WS0126

| Analyte    | SpkAmt   | QuantAmt | Units | %D  | Max | %D | Flags |
|------------|----------|----------|-------|-----|-----|----|-------|
| Aluminum   | 500000.0 | 489000.0 | ug/L  | -2  |     |    |       |
| Antimony   | 500.0000 | 557.0000 | ug/L  | 11  | 20  |    |       |
| Arsenic    | 500.0000 | 518.0000 | ug/L  | 4   | 20  |    |       |
| Barium     | 500.0000 | 486.0000 | ug/L  | -3  | 20  |    |       |
| Beryllium  | 500.0000 | 488.0000 | ug/L  | -2  | 20  |    |       |
| Cadmium    | 1000.000 | 930.0000 | ug/L  | -7  | 20  |    |       |
| Calcium    | 500000.0 | 432000.0 | ug/L  | -14 |     |    |       |
| Chromium   | 500.0000 | 466.0000 | ug/L  | -7  | 20  |    |       |
| Cobalt     | 500.0000 | 463.0000 | ug/L  | -7  | 20  |    |       |
| Copper     | 500.0000 | 503.0000 | ug/L  | 1   | 20  |    |       |
| Iron       | 200000.0 | 174100.0 | ug/L  | -13 |     |    |       |
| Lead       | 1000.000 | 938.0000 | ug/L  | -6  | 20  |    |       |
| Magnesium  | 500000.0 | 503300.0 | ug/L  | 1   |     |    |       |
| Manganese  | 500.0000 | 457.0000 | ug/L  | -9  | 20  |    |       |
| Molybdenum | 500.0000 | 491.0000 | ug/L  | -2  | 20  |    |       |
| Nickel     | 1000.000 | 895.0000 | ug/L  | -11 | 20  |    |       |
| Selenium   | 500.0000 | 519.0000 | ug/L  | 4   | 20  |    |       |
| Silver     | 1000.000 | 1010.000 | ug/L  | 1   | 20  |    |       |
| Thallium   | 500.0000 | 464.0000 | ug/L  | -7  | 20  |    |       |
| Titanium   | 20000.00 | 21200.00 | ug/L  | 6   |     |    |       |
| Vanadium   | 500.0000 | 472.0000 | ug/L  | -6  | 20  |    |       |
| Zinc       | 1000.000 | 988.0000 | ug/L  | -1  | 20  |    |       |

# SEQUENCE SUMMARY

## Curtis & Tompkins Laboratories

Begun: 31-JAN-2005

Sequence: 75045058 Instrument: MET07 TJA Trace ICP  
Analytical Method: EPA 6010B SOP Version: 6010B\_rv7

| #   | Filename | Type   | Samplenum  | Batch | Matrix | Analyzed    | IDF   | PDF  | IOC | SPK | uL | Stds | Used        | >LR |
|-----|----------|--------|------------|-------|--------|-------------|-------|------|-----|-----|----|------|-------------|-----|
| 001 | tr261585 | CS     |            |       |        | 31-JAN-2005 | 06:58 | 1.0  |     |     |    | 1    |             |     |
| 002 | tr261586 | ICV    |            |       |        | 31-JAN-2005 | 07:04 | 1.0  |     |     |    | 2    |             |     |
| 003 | tr261587 | ICB    |            |       |        | 31-JAN-2005 | 07:08 | 1.0  |     |     |    |      |             |     |
| 004 | tr261588 | CRI    |            |       |        | 31-JAN-2005 | 07:16 | 1.0  |     |     |    | 3    |             |     |
| 005 | tr261589 | ICSA   |            |       |        | 31-JAN-2005 | 07:29 | 1.0  |     |     |    | 4    | 4:MG=537400 |     |
| 006 | tr261590 | ICSAB  |            |       |        | 31-JAN-2005 | 07:33 | 1.0  |     |     |    | 5    | 5:MG=525500 |     |
| 007 | tr261591 | BS     | QC281005   | 98731 | WET Le | 31-JAN-2005 | 07:40 | 1.0  |     |     |    |      |             |     |
| 008 | tr261592 | BSD    | QC281006   | 98731 | WET Le | 31-JAN-2005 | 07:44 | 1.0  |     |     |    |      |             |     |
| 009 | tr261593 | BLANK  | QC281004   | 98731 | WET Le | 31-JAN-2005 | 07:50 | 10.0 |     |     |    |      |             |     |
| 010 | tr261594 | MSS    | 177355-001 | 98731 | WET Le | 31-JAN-2005 | 07:54 | 10.0 |     |     |    |      |             |     |
| 011 | tr261595 | SDUP   | QC281007   | 98731 | WET Le | 31-JAN-2005 | 07:59 | 10.0 |     |     |    |      |             |     |
| 012 | tr261596 | SSPIKE | QC281008   | 98731 | WET Le | 31-JAN-2005 | 08:03 | 10.0 |     |     |    |      |             |     |
| 013 | tr261597 | SAMPLE | 177359-010 | 98731 | WET Le | 31-JAN-2005 | 08:13 | 10.0 |     |     |    |      |             |     |
| 014 | tr261598 | CCV    |            |       |        | 31-JAN-2005 | 08:21 | 1.0  |     |     |    | 6    |             |     |
| 015 | tr261600 | CCB    |            |       |        | 31-JAN-2005 | 08:43 | 1.0  |     |     |    |      |             |     |
| 016 | tr261601 | BLANK  | QC281077   | 98751 | Soil   | 31-JAN-2005 | 08:53 | 1.0  |     |     |    |      |             |     |
| 017 | tr261602 | BS     | QC281078   | 98751 | Soil   | 31-JAN-2005 | 09:01 | 1.0  |     |     |    |      |             |     |
| 018 | tr261603 | BSD    | QC281079   | 98751 | Soil   | 31-JAN-2005 | 09:05 | 1.0  |     |     |    |      |             |     |
| 019 | tr261604 | MSS    | 177403-005 | 98751 | Soil   | 31-JAN-2005 | 09:11 | 1.0  |     |     | 4  |      | 4:CA=459600 |     |
| 020 | tr261605 | SER    | QC281082   | 98751 | Soil   | 31-JAN-2005 | 09:17 | 5.0  |     |     |    |      |             |     |
| 021 | tr261606 | SER    | QC281082   | 98751 | Soil   | 31-JAN-2005 | 09:21 | 5.0  |     |     |    |      |             |     |
| 022 | tr261607 | MSS    | 177403-005 | 98751 | Soil   | 31-JAN-2005 | 09:26 | 5.0  |     |     | 1  |      |             |     |
| 023 | tr261608 | SER    | QC281082   | 98751 | Soil   | 31-JAN-2005 | 09:39 | 25.0 |     |     | 2  |      |             |     |
| 024 | tr261609 | MS     | QC281080   | 98751 | Soil   | 31-JAN-2005 | 09:44 | 1.0  |     |     | 1  |      | 4:CA=567600 |     |
| 025 | tr261610 | MSD    | QC281081   | 98751 | Soil   | 31-JAN-2005 | 09:48 | 1.0  |     |     | 2  |      | 4:FE=453200 |     |
| 026 | tr261611 | CCV    |            |       |        | 31-JAN-2005 | 10:04 | 1.0  |     |     |    | 7    |             |     |
| 027 | tr261612 | CCB    |            |       |        | 31-JAN-2005 | 10:12 | 1.0  |     |     |    |      |             |     |
| 028 | tr261613 | PDS    | QC281083   | 98751 | Soil   | 31-JAN-2005 | 10:16 | 1.0  |     |     | 4  |      | 4:CA=425400 |     |
| 029 | tr261614 | SAMPLE | 177395-001 | 98751 | Miscel | 31-JAN-2005 | 10:32 | 1.0  |     |     |    |      |             |     |
| 030 | tr261615 | SAMPLE | 177406-001 | 98751 | Soil   | 31-JAN-2005 | 10:37 | 1.0  |     |     |    |      | 2:FE=218700 |     |
| 031 | tr261616 | SAMPLE | 177306-012 | 98719 | Water  | 31-JAN-2005 | 10:42 | 1.0  |     |     |    |      |             |     |

Stds used: 1=04WS2257 2=05WS0014 3=04WS2346 4=04WS2355 5=05WS0126 6=05WS0015 7=04WS2419 8=04SS171 9=04SS172

Analyst: *J. Carley* Date: *1/31/05*

SEQUENCE SUMMARY  
Curtis & Tompkins Laboratories

Sequence: 75045058      Instrument: MET07      TJA Trace ICP      Begun: 31-JAN-2005  
Analytical Method: EPA 6010B      SOP Version: 6010B\_rv7

| #   | Filename | Type   | Sample     | Batch | Matrix | Analyzed    | IDF   | PDF | IQC | SPK | uL | Stds | Used | >LR          |
|-----|----------|--------|------------|-------|--------|-------------|-------|-----|-----|-----|----|------|------|--------------|
| 032 | tr261617 | SAMPLE | 177306-013 | 98719 | Water  | 31-JAN-2005 | 10:47 | 1.0 |     |     |    |      |      |              |
| 033 | tr261618 | SAMPLE | 177306-014 | 98719 | Water  | 31-JAN-2005 | 10:51 | 1.0 |     |     |    |      |      | 1:ZN=24200.0 |
| 034 | tr261619 | SAMPLE | 177306-015 | 98719 | Water  | 31-JAN-2005 | 10:56 | 1.0 |     |     |    |      |      |              |
| 035 | tr261620 | SAMPLE | 177306-016 | 98719 | Water  | 31-JAN-2005 | 11:00 | 1.0 |     |     |    |      |      |              |
| 036 | tr261621 | SAMPLE | 177306-017 | 98719 | Water  | 31-JAN-2005 | 11:04 | 1.0 | 1   |     |    |      |      | 1:PB=130000  |
| 037 | tr261622 | SAMPLE | 177306-018 | 98719 | Water  | 31-JAN-2005 | 11:09 | 1.0 |     |     |    |      |      |              |
| 038 | tr261623 | CCV    |            |       |        | 31-JAN-2005 | 11:15 | 1.0 |     |     |    |      | 6    |              |
| 039 | tr261624 | CCB    |            |       |        | 31-JAN-2005 | 11:26 | 1.0 |     |     |    |      |      |              |
| 040 | tr261625 | SAMPLE | 177306-017 | 98719 | Water  | 31-JAN-2005 | 11:45 | 5.0 |     |     |    |      |      |              |
| 041 | tr261626 | SAMPLE | 177306-019 | 98719 | Water  | 31-JAN-2005 | 11:49 | 1.0 |     |     |    |      |      |              |
| 042 | tr261627 | SAMPLE | 177306-020 | 98719 | Water  | 31-JAN-2005 | 11:53 | 1.0 |     |     |    |      |      |              |
| 043 | tr261628 | ICSAB  |            |       |        | 31-JAN-2005 | 11:59 | 1.0 |     |     |    |      | 5    | 5:MG=503300  |
| 044 | tr261629 | CCV    |            |       |        | 31-JAN-2005 | 12:06 | 1.0 |     |     |    |      | 7    |              |
| 045 | tr261630 | CCB    |            |       |        | 31-JAN-2005 | 12:11 | 1.0 |     |     |    |      |      |              |

Stds used: 1=04WS2257 2=05WS0014 3=04WS2346 4=04WS2355 5=05WS0126 6=05WS0015 7=04WS2419 8=04SS171 9=04SS172

Analyst: *H. Carlyn* Date: *1/31/05*  
Page 2 of 2

REPORTING SUMMARY FOR 177403 METALS Soil  
Curtis & Tompkins Laboratories

| Lab ID     | Inst ID | Analyzed       | IDF  | S | A | B | B | C | C | C | C | F | P | M | M | N | S | A | T | V | Z |
|------------|---------|----------------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|            |         |                |      | B | S | A | E | D | R | O | U | E | B | N | O | I | E | G | L | N |   |
| 177403-005 | MET07   | 01/31/05 09:11 | 1.0  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 177403-005 | MET07   | 01/31/05 09:26 | 5.0  |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |
| QC281077   | MET07   | 01/31/05 08:53 | 1.0  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| QC281078   | MET07   | 01/31/05 09:01 | 1.0  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| QC281079   | MET07   | 01/31/05 09:05 | 1.0  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| QC281080   | MET07   | 01/31/05 09:44 | 1.0  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| QC281081   | MET07   | 01/31/05 09:48 | 1.0  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| QC281082   | MET07   | 01/31/05 09:17 | 5.0  | + | + | + | + | + | + | + | + |   | + | + | + | + |   | + | + | + | + |
| QC281082   | MET07   | 01/31/05 09:21 | 5.0  |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |
| QC281082   | MET07   | 01/31/05 09:39 | 25.0 |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |
| QC281083   | MET07   | 01/31/05 10:16 | 1.0  | + | + | + | + | + | + | + | + |   | + | + | + | + | + | + | + | + | + |

**Curtis & Tompkins Laboratories      Sample Preparation Summary      31-JAN-2005 09:11**

Batch Number : 98751      Analysis : N/A      Spike #1 ID : 04SS171  
 Date Extracted : 30-JAN-2005      Bgroup : ICAP      Spike #2 ID : 04SS172  
 Extracted by : Victor Vergara      Units : g      Spike #3 ID :  
 Prep Method : 3050B      Clean-up :

| Sample     | Type  | Client                 | Matrix   | Init W/V | Units | Final Vol | Prep D.F. | Clean pH | Sp 1 Vol | Sp 2 Vol | Sp 3 Vol | Analyses | Clean Method | Comments |
|------------|-------|------------------------|----------|----------|-------|-----------|-----------|----------|----------|----------|----------|----------|--------------|----------|
| 177395-001 |       | ConocoPhillips Company | Miscell. | .99      | g     | 50        | 50.505051 | 1        |          |          |          | V        |              |          |
| 177403-005 |       | Treadwell & Rollo      | Soil     | 1.05     | g     | 50        | 47.619048 | 1        |          |          |          | T26/ICP  |              | mss      |
| 177406-001 |       | Treadwell & Rollo      | Soil     | 1.11     | g     | 50        | 45.045045 | 1        |          |          |          | T26/ICP  |              |          |
| QC281077   | BLANK |                        | Soil     | 1        | g     | 50        | 50.000000 | 1        |          |          |          | ICAP     |              |          |
| QC281078   | BS    |                        | Soil     | 1        | g     | 50        | 50.000000 | 1        | .5       | .5       |          | ICAP     |              |          |
| QC281079   | BSD   |                        | Soil     | 1        | g     | 50        | 50.000000 | 1        | .5       | .5       |          | ICAP     |              |          |
| QC281080   | MS    | of 177403-005          | Soil     | 1.15     | g     | 50        | 43.478261 | 1        | .5       | .5       |          | ICAP     |              |          |
| QC281081   | MSD   | of 177403-005          | Soil     | 1.1      | g     | 50        | 45.454545 | 1        | .5       | .5       |          | ICAP     |              |          |
| QC281082   | SER   | of 177403-005          | Soil     | 1.05     | g     | 50        | 47.619048 | 1        |          |          |          | ICAP     |              |          |
| QC281083   | PDS   | of 177403-005          | Soil     | 1.05     | g     | 50        | 47.619048 | 1        |          |          |          | ICAP     |              |          |

Prep Chemist: KC for V Vergara      Reviewed By: K Carlson      Date: 1/31/05  
 Relinquished By: KC for V Vergara      Received By: K Carlson      Date: 1/31/05

BK 2057

Date Digested: 1/28/05

~~EPA~~ 3050b

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Digested by: ✓✓

☐ \_\_\_\_\_

| Sample # and letter | Weight of Sample (g) | Final Volume (mL) | Filtered? (y/n) | Comments                  |
|---------------------|----------------------|-------------------|-----------------|---------------------------|
| BLK DC 281077       | <del>0</del>         | 50.0              | Y               |                           |
| BS   281078         |                      |                   |                 |                           |
| BSD   281079        |                      |                   |                 |                           |
| 177403-005 MS       | 1.15                 |                   |                 |                           |
| - 005 MSD           | 1.10                 |                   |                 |                           |
| 177395-001          | 0.99                 |                   |                 | comp 3 jars.              |
| 177406-001 A        | 1.11                 |                   |                 |                           |
| 177403-005          | 1.05                 |                   |                 | MSS comp 001-002-003-004- |

digestion temperature (90 - 95 degrees C)

0.5 mL of spike solution was added to all spikes

1:1 HNO<sub>3</sub>

concentrated  $\text{HNO}_3$

3mL 30% hydrogen peroxide

concentrated HCl

☒ filtered thru' Whatman # 541

Reagent ID or LIMS #      Initials / Date

950

NV 117805

0455171 \*

0455177\*

A27061-012205

A27061- New

43797404 - VWR

AH3047, 17Bakn

F15140257

M. Wenz      1/28/05  
Extraction Chemist / Date

Continued from page 80  
Continued on page 80

K Carlson 1/31/05  
Reviewed by / Date

Curtis & Tompkins Laboratories  
MDL Summary for EPA 6010B Soil 3050B

| Analyte    | Units | MET01          | MET07           | MET08 A         | MET08 R        |
|------------|-------|----------------|-----------------|-----------------|----------------|
| Aluminum   | mg/Kg | 07/26/04 1.5   | 07/21/04 0.52   |                 | 09/10/04 1.3   |
| Antimony   | mg/Kg | 07/20/04 1.3   | 07/21/04 0.20   | 09/10/04 0.076  |                |
| Arsenic    | mg/Kg | 07/26/04 2.8   | 07/20/04 0.10   | 09/10/04 0.10   |                |
| Barium     | mg/Kg | 07/27/04 0.098 | 07/21/04 0.013  | 09/17/04 0.032  | 09/10/04 0.033 |
| Beryllium  | mg/Kg | 07/20/04 0.029 | 07/21/04 0.0063 | 09/10/04 0.0056 |                |
| Cadmium    | mg/Kg | 07/20/04 0.14  | 07/21/04 0.028  | 09/10/04 0.0076 |                |
| Calcium    | mg/Kg | 07/26/04 2.8   | 07/21/04 0.58   |                 | 09/10/04 1.5   |
| Chromium   | mg/Kg | 07/20/04 0.29  | 07/21/04 0.033  | 09/10/04 0.013  |                |
| Cobalt     | mg/Kg | 07/20/04 0.39  | 07/21/04 0.076  | 09/10/04 0.0087 |                |
| Copper     | mg/Kg | 07/20/04 0.11  | 07/21/04 0.057  | 09/10/04 0.069  |                |
| Iron       | mg/Kg | 07/20/04 1.5   | 07/21/04 0.80   |                 | 09/10/04 0.33  |
| Lead       | mg/Kg | 07/26/04 7.9   | 07/20/04 0.065  | 09/10/04 0.078  |                |
| Magnesium  | mg/Kg | 07/20/04 1.5   | 07/21/04 0.52   |                 | 09/10/04 1.2   |
| Manganese  | mg/Kg | 07/20/04 0.11  | 07/20/04 0.11   | 09/17/04 0.028  | 09/10/04 0.023 |
| Molybdenum | mg/Kg | 07/20/04 0.43  | 07/21/04 0.062  | 09/10/04 0.062  |                |
| Nickel     | mg/Kg | 07/20/04 0.64  | 07/21/04 0.067  | 09/10/04 0.026  |                |
| Potassium  | mg/Kg | 07/27/04 18    |                 |                 | 09/17/04 3.7   |
| Selenium   | mg/Kg | 07/27/04 8.1   | 07/21/04 0.17   | 09/10/04 0.18   |                |
| Silver     | mg/Kg | 07/26/04 0.18  | 07/21/04 0.098  | 09/10/04 0.035  |                |
| Sodium     | mg/Kg | 07/26/04 2.8   |                 |                 | 09/17/04 3.2   |
| Thallium   | mg/Kg | 07/26/04 9.5   | 07/21/04 0.21   | 09/10/04 0.17   |                |
| Vanadium   | mg/Kg | 07/20/04 0.14  | 07/21/04 0.045  | 09/10/04 0.039  |                |
| Zinc       | mg/Kg | 07/20/04 0.17  | 07/21/04 0.17   | 09/17/04 0.14   | 09/10/04 0.091 |
| Boron      | mg/Kg | 07/27/04 3.1   |                 | 09/17/04 0.32   |                |
| Tin        | mg/Kg | 07/26/04 1.0   |                 | 09/17/04 0.085  |                |
| Titanium   | mg/Kg | 07/26/04 0.099 |                 | 09/17/04 0.079  | 09/17/04 0.068 |

## **MOISTURE DATA**



# Percent Moisture Summary Report

Batch: 98832  
 Date: 02/03/05  
 Method: CLP SOW 390  
 Analyst: RSM

| Sample        | Tare (g) | Wet (g) | Dry (g) | Percent Solids | Percent Moisture |
|---------------|----------|---------|---------|----------------|------------------|
| 176961-003    | 15.2721  | 22.8161 | 21.3113 | 80             | 20               |
| 176961-005    | 15.5424  | 22.3506 | 21.1065 | 82             | 18               |
| 176961-008    | 15.5242  | 22.7037 | 21.5018 | 83             | 17               |
| 176961-015    | 15.1656  | 22.6771 | 21.5222 | 85             | 15               |
| 176984-003    | 15.4032  | 22.5737 | 21.4296 | 84             | 16               |
| 176984-006    | 15.3349  | 22.3668 | 21.1006 | 82             | 18               |
| 176984-025    | 15.2848  | 22.3876 | 21.3302 | 85             | 15               |
| 176984-028    | 15.2976  | 22.7658 | 21.0669 | 77             | 23               |
| 177394-001    | 15.5757  | 22.2744 | 20.7192 | 77             | 23               |
| 177394-002    | 15.5034  | 22.0887 | 20.8265 | 81             | 19               |
| 177394-003    | 15.3820  | 22.2172 | 20.5692 | 76             | 24               |
| 177394-004    | 15.4467  | 22.3558 | 20.6515 | 75             | 25               |
| 177394-005    | 15.3197  | 22.6114 | 20.9595 | 77             | 23               |
| 177403-005    | 15.4995  | 22.8020 | 22.2201 | 92             | 8                |
| QC281391      | 15.4180  | 22.5573 | 22.0603 | 93             | 7                |
| of 177403-005 |          |         | RPD:    | 1.1%           | 13.5%            |

# Curtis & Tompkins Laboratories      Sample Batch Report

Batch Number: 98832  
 Date Started: 02-FEB-2005  
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE  
 Bgroup : N/A  
 Department : Metals

| Sample     | Type | Client             | Matrix | Analyses | Due Date    |
|------------|------|--------------------|--------|----------|-------------|
| 176961-003 |      | Ninyo & Moore      | Soil   | MOISTURE | 03-FEB-2005 |
| 176961-005 |      | Ninyo & Moore      | Soil   | MOISTURE | 03-FEB-2005 |
| 176961-008 |      | Ninyo & Moore      | Soil   | MOISTURE | 03-FEB-2005 |
| 176961-015 |      | Ninyo & Moore      | Soil   | MOISTURE | 03-FEB-2005 |
| 176984-003 |      | Ninyo & Moore      | Soil   | MOISTURE | 03-FEB-2005 |
| 176984-006 |      | Ninyo & Moore      | Soil   | MOISTURE | 03-FEB-2005 |
| 176984-025 |      | Ninyo & Moore      | Soil   | MOISTURE | 09-FEB-2005 |
| 176984-028 |      | Ninyo & Moore      | Soil   | MOISTURE | 03-FEB-2005 |
| 177394-001 |      | Montezuma Wetlands | Soil   | MOISTURE | 03-FEB-2005 |
| 177394-002 |      | Montezuma Wetlands | Soil   | MOISTURE | 03-FEB-2005 |
| 177394-003 |      | Montezuma Wetlands | Soil   | MOISTURE | 03-FEB-2005 |
| 177394-004 |      | Montezuma Wetlands | Soil   | MOISTURE | 03-FEB-2005 |
| 177394-005 |      | Montezuma Wetlands | Soil   | MOISTURE | 03-FEB-2005 |
| 177403-005 |      | Treadwell & Rollo  | Soil   | MOISTURE | 04-FEB-2005 |
| QC281391   | SDUP | of 177403-005      | Soil   | MOISTURE |             |

2/2/05

# 98832

| Sample    | B.L.  | Dish # | Tare wt. | Init. wt. | Fin. wt. | Comments         |
|-----------|-------|--------|----------|-----------|----------|------------------|
| Blank     | 1     | 11     | 15.5732  | —         | 15.5732  |                  |
| 176961-   | 3 A   | 33     | 15.2721  | 22.8161   | 21.3113  |                  |
|           | 5     | 8      | 15.5424  | 22.3506   | 21.1065  |                  |
|           | 8     | 18     | 15.5242  | 22.7037   | 21.5018  |                  |
|           | 15    | 112    | 15.1656  | 22.6771   | 21.5222  |                  |
| 176984-   | 3     | 32     | 15.4032  | 22.5737   | 21.4296  |                  |
|           | 6     | 78     | 15.3349  | 22.3668   | 21.1006  |                  |
|           | 28    | 20     | 15.2576  | 22.7656   | 21.0669  |                  |
| 177394-   | 1 A-D | 4      | 15.5757  | 22.2744   | 20.7192  | COMP. 2, 3, 4, 5 |
|           | 2 A   | 177    | 15.5034  | 22.0887   | 20.8265  |                  |
|           | 3 B   | 46     | 15.3820  | 22.2172   | 20.5692  |                  |
|           | 4 C   | 3      | 15.4467  | 22.3558   | 20.6515  |                  |
|           | 5 D   | 973    | 15.3197  | 22.6114   | 20.9595  |                  |
| 177403-   | 5 A   | 39     | 15.4995  | 22.8020   | 22.2201  | COMP. 1-4        |
| DUO ↓     | 5 A   | 40     | 15.4180  | 22.5573   | 22.0203  | ↓ ↓              |
| 176984-25 | A     | 26     | 15.2848  | 22.3876   | 21.3302  |                  |

OVEN TEMP: 103°C  
TIME IN: 4:20 P.M.  
TIME OUT: 8:58 A.M.

OIN: 2-3-05

Continued on Page

Read and Understood By

D. M...  
Signed

2-2-05

Date

85

Signed

Date

## CURTIS &amp; TOMPKINS

QA/QC

TEMPERATURE MONITOR

MONTH/YEAR Jan. 3, 05

| °C  | DATE     | INITIAL | °C  | DATE     | INITIAL |
|-----|----------|---------|-----|----------|---------|
| 103 | 01/03/05 | ms      | 105 | 01-31-05 | DSM     |
| 103 | 01/04/05 | DSM     | 104 | 02-01-05 | DSM     |
| 104 | 01/05/05 | DSM     | 103 | 02-02-05 | DSM     |
| 103 | 01/06/05 | DSM     | 104 | 02-03-05 | DSM     |
| 103 | 01/07/05 | DSM     |     |          |         |
| 103 | 01/10/05 | DSM     |     |          |         |
| 103 | 01/11/05 | DSM     |     |          |         |
| 104 | 01/12/05 | DSM     |     |          |         |
| 103 | 01/13/05 | DSM     |     |          |         |
| 103 | 01/14/05 | DSM     |     |          |         |
| 104 | 01/17/05 | DSM     |     |          |         |
| 103 | 01/18/05 | ms      |     |          |         |
| 103 | 01/19/05 | DSM     |     |          |         |
| 103 | 01/20/05 | DSM     |     |          |         |
| 103 | 01/21/05 | DSM     |     |          |         |
| 103 | 01/22/05 | DSM     |     |          |         |
| 105 | 01/24/05 | DSM     |     |          |         |
| 104 | 01/25/05 | DSM     |     |          |         |
| 104 | 01/26/05 | DSM     |     |          |         |
| 103 | 01/27/05 | DSM     |     |          |         |
| 105 | 01/28/05 | DSM     |     |          |         |

| DATE     | 0.2000 | 1.0000 | 10.0000 | 50.0000 | INITIAL | SET # |
|----------|--------|--------|---------|---------|---------|-------|
| 01-12-05 | 0.2000 | 1.0000 | 10.0001 | 50.0003 | DSM     | 35298 |
| 01-13-05 | 0.2000 | 1.0001 | 10.0000 | 50.0002 | DSM     | 35298 |
| 01-14-05 | 0.2001 | 1.0000 | 10.0000 | 50.0003 | DSM     | 35298 |
| 01-17-05 | 0.2000 | 1.0001 | 10.0000 | 50.0003 | DSM     | 35298 |
| 01-18-05 | 0.2000 | 1.0000 | 10.0001 | 50.0002 | DSM     | 35298 |
| 01-19-05 | 0.2000 | 1.0000 | 10.0001 | 50.0003 | DSM     | 35298 |
| 01-20-05 | 0.2001 | 1.0000 | 10.0000 | 50.0003 | DSM     | 35298 |
| 01-21-05 | 0.2000 | 1.0000 | 10.0001 | 50.0001 | DSM     | 35298 |
| 01-22-05 | 0.2000 | 1.0000 | 10.0000 | 50.0003 | DSM     | 35298 |
| 01-24-05 | 0.2000 | 1.0000 | 10.0001 | 50.0002 | DSM     | 35298 |
| 01-25-05 | 0.2001 | 1.0000 | 10.0000 | 50.0002 | DSM     | 35298 |
| 01-26-05 | 0.2000 | 1.0000 | 10.0001 | 50.0001 | DSM     | 35298 |
| 01-27-05 | 0.2000 | 1.0001 | 10.0000 | 50.0002 | DSM     | 35298 |
| 01-28-05 | 0.2001 | 1.0000 | 10.0001 | 50.0004 | DSM     | 35298 |
| 01-31-05 | 0.2000 | 1.0000 | 10.0000 | 50.0003 | DSM     | 35298 |
| 02-01-05 | 0.2000 | 1.0001 | 10.0001 | 50.0003 | DSM     | 35298 |
| 02-02-05 | 0.2000 | 1.0000 | 10.0000 | 50.0002 | DSM     | 35298 |
| 02-03-05 | 0.2000 | 1.0001 | 10.0000 | 50.0003 | DSM     | 35298 |
|          |        |        | 10.0000 | 50.0004 | DSM     | 35298 |

Continued on Page 5

Read and Understood By

R. M. M. M. M.  
Signed

01-12-05  
Date

Signed

Date

## ANALYTICAL REPORT

Job Number: 720-1025-1

Job Description: Soil Composite BB3 408

For:

Performance Excavators Inc  
103 Shoreline Parkway  
Second Floor  
San Rafael, CA 94901-5521

Attention: Mr. Cliff Busekist

*Surinder Sidhu*

---

Surinder Sidhu  
Project Manager I  
ssidhu@stl-inc.com  
12/21/2005

**Severn Trent Laboratories, Inc.**

STL San Francisco 1220 Quarry Lane, Pleasanton, CA 94566  
Tel 925-484-1919 Fax 925-484-1096 [www.stl-inc.com](http://www.stl-inc.com)

Page 1 of 17

## METHOD SUMMARY

Client: Performance Excavators Inc

Job Number: 720-1025-1

| Description  | Lab Location | Method      | Preparation Method |
|--|--------------|-------------|--------------------|
| <b>Matrix: Solid</b>   |              |             |                    |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | STL-SF       | SW846 8015B |                    |
| Ultrasonic Extraction  | STL-SF       |             | SW846 3550B        |
| Silica Gel Cleanup   | STL-SF       |             | SW846 3630C        |
| Organochlorine Pesticides by Gas Chromatography                        | STL-SF       | SW846 8081A |                    |
| Ultrasonic Extraction  | STL-SF       |             | SW846 3550B        |
| Inductively Coupled Plasma - Atomic Emission Spectrometry              | STL-SF       | SW846 6010B |                    |
| Acid Digestion of Sediments, Sludges, and Soils                        | STL-SF       |             | SW846 3050B        |
| Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)      | STL-SF       | SW846 7471A |                    |
| Mercury in Solid or Semi-Solid Waste (Manual                           | STL-SF       |             | SW846 7471A        |

### LAB REFERENCES:

STL-SF = STL-San Francisco

### METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## SAMPLE SUMMARY

Client: Performance Excavators Inc

Job Number: 720-1025-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time<br>Sampled | Date/Time<br>Received |
|---------------|------------------|---------------|----------------------|-----------------------|
| 720-1025-5    | BB3A/B COMP2     | Solid         | 12/14/2005 1500      | 12/15/2005 1815       |



# Analytical Data

Job Number: 720-1025-1

Client: Performance Excavators Inc

Client Sample ID: BB3A/B COMP2

Lab Sample ID: 720-1025-5

Client Matrix: Solid

Date Sampled: 12/14/2005 1500

Date Received: 12/15/2005 1815

## 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

|                |                 |                 |          |                        |         |
|----------------|-----------------|-----------------|----------|------------------------|---------|
| Method:        | 8015B           | Analysis Batch: | 720-3234 | Instrument ID:         | HP DRO3 |
| Preparation:   | 3550B           | Prep Batch:     | 720-3145 | Lab File ID:           | N/A     |
| Dilution:      | 1.0             |                 |          | Initial Weight/Volume: | 30.15 g |
| Date Analyzed: | 12/19/2005 0831 |                 |          | Final Weight/Volume:   | 5 mL    |
| Date Prepared: | 12/16/2005 1028 |                 |          | Injection Volume:      |         |
|                |                 |                 |          | Column ID:             | PRIMARY |

| Analyte                            | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL                |
|------------------------------------|--------------------|----------------|-----------|-------------------|
| Diesel Range Organics [C10-C28]    |                    | 7.4            |           | 1.0               |
| Motor Oil Range Organics [C24-C36] |                    | ND             |           | 50                |
| Surrogate                          |                    | %Rec           |           | Acceptance Limits |
| o-Terphenyl                        |                    | 63             |           | 60 - 130          |

# Analytical Data

Client: Performance Excavators Inc

Job Number: 720-1025-1

Client Sample ID: BB3A/B COMP2

Lab Sample ID: 720-1025-5

Client Matrix: Solid

Date Sampled: 12/14/2005 1530

Date Received: 12/15/2005 1815

## 8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A

Analysis Batch: 720-3372

Instrument ID: Varian Pest 2

Preparation: 3550B

Prep Batch: 720-3277

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 30.42 g

Date Analyzed: 12/20/2005 1822

Final Weight/Volume: 10 mL

Date Prepared: 12/19/2005 1557

Injection Volume:

Column ID: PRIMARY

| Analyte               | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL  |
|-----------------------|--------------------|----------------|-----------|-----|
| Aldrin                |                    | ND             |           | 2.0 |
| Dieldrin              |                    | ND             |           | 2.0 |
| Endrin aldehyde       |                    | ND             |           | 2.0 |
| Endrin                |                    | ND             |           | 2.0 |
| Endrin ketone         |                    | ND             |           | 2.0 |
| Heptachlor            |                    | ND             |           | 2.0 |
| Heptachlor epoxide    |                    | ND             |           | 2.0 |
| 4,4'-DDT              |                    | ND             |           | 2.0 |
| 4,4'-DDE              |                    | ND             |           | 2.0 |
| 4,4'-DDD              |                    | ND             |           | 2.0 |
| Endosulfan I          |                    | ND             |           | 2.0 |
| Endosulfan II         |                    | ND             |           | 2.0 |
| alpha-BHC             |                    | ND             |           | 2.0 |
| beta-BHC              |                    | ND             |           | 2.0 |
| gamma-BHC (Lindane)   |                    | ND             |           | 2.0 |
| delta-BHC             |                    | ND             |           | 2.0 |
| Endosulfan sulfate    |                    | ND             |           | 2.0 |
| Methoxychlor          |                    | ND             |           | 2.0 |
| Toxaphene             |                    | ND             |           | 99  |
| Chlordane (technical) |                    | ND             |           | 49  |
| alpha-Chlordane       |                    | ND             |           | 2.0 |
| gamma-Chlordane       |                    | ND             |           | 2.0 |

| Surrogate              | %Rec | Acceptance Limits |
|------------------------|------|-------------------|
| Tetrachloro-m-xylene   | 105  | 50 - 125          |
| DCB Decachlorobiphenyl | 90   | 46 - 142          |

# Analytical Data

Client: Performance Excavators Inc

Job Number: 720-1025-1

Client Sample ID: BB3A/B COMP2

Lab Sample ID: 720-1025-5

Date Sampled: 12/14/2005 1500

Client Matrix: Solid

Date Received: 12/15/2005 1815

## 6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B

Analysis Batch: 720-3334

Instrument ID: Varian ICP

Preparation: 3050B

Prep Batch: 720-3289

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1.01 g

Date Analyzed: 12/20/2005 1355

Final Weight/Volume: 50 mL

Date Prepared: 12/20/2005 0739

*Rec Bead/Due*

*Yes Bead/Due*

| Analyte    | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL   |
|------------|--------------------|----------------|-----------|------|
| Silver     |                    | ND ✓✓          |           | 0.99 |
| Arsenic    |                    | 4.7 ✓✓         |           | 0.99 |
| Barium     |                    | 190 ✓✓         |           | 0.99 |
| Beryllium  |                    | ND ✓✓          |           | 0.50 |
| Cadmium    |                    | 0.95 ✓✓        |           | 0.99 |
| Cobalt     |                    | 5.8 ✓✓         |           | 0.99 |
| Chromium   |                    | 6.1 ✓✓         |           | 0.99 |
| Copper     |                    | 14 ✓✓          |           | 0.99 |
| Iron       |                    | 1500C NA       |           | 9.9  |
| Molybdenum |                    | 1.3 ✓✓         |           | 0.99 |
| Nickel     |                    | 14 ✓✓          |           | 0.99 |
| Lead       |                    | 9.0 ✓✓         |           | 0.99 |
| Antimony   |                    | 2.8 ✓✓         |           | 2.0  |
| Selenium   |                    | ND ✓✓          |           | 2.0  |
| Thallium   |                    | ND ✓✓          |           | 0.99 |
| Vanadium   |                    | 7.6 ✓✓         |           | 0.99 |
| Zinc       |                    | 42 ✓✓          |           | 0.99 |

## 7471A Mercury In Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A

Analysis Batch: 720-3304

Instrument ID: FIMS 100

Preparation: 7471A

Prep Batch: 720-3284

Lab File ID: N/A

Dilution: 10

Initial Weight/Volume: 1.00 g

Date Analyzed: 12/20/2005 1115

Final Weight/Volume: 50 mL

Date Prepared: 12/19/2005 1455

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL   |
|---------|--------------------|----------------|-----------|------|
| Mercury |                    | 1.9            |           | 0.50 |

## DATA REPORTING QUALIFIERS

| Lab Section | Qualifier | Description |
|-------------|-----------|-------------|
|-------------|-----------|-------------|

## Quality Control Results

Client: Performance Excavators Inc

Job Number: 720-1025-1

### QC Association Summary

| Lab Sample ID                   | Client Sample ID            | Client Matrix | Method | Prep Batch |
|---------------------------------|-----------------------------|---------------|--------|------------|
| <b>GC Semi VOA</b>              |                             |               |        |            |
| <b>Prep Batch: 720-3145</b>     |                             |               |        |            |
| LCS 720-3145/2-B                | Lab Control Spike           | Solid         | 3550B  |            |
| LCSD 720-3145/3-B               | Lab Control Spike Duplicate | Solid         | 3550B  |            |
| MB 720-3145/1-B                 | Method Blank                | Solid         | 3550B  |            |
| 720-1025-5                      | BB3A/B COMP2                | Solid         | 3550B  |            |
| <b>Prep Batch: 720-3277</b>     |                             |               |        |            |
| LCS 720-3277/2-A                | Lab Control Spike           | Solid         | 3550B  |            |
| LCSD 720-3277/3-A               | Lab Control Spike Duplicate | Solid         | 3550B  |            |
| MB 720-3277/1-A                 | Method Blank                | Solid         | 3550B  |            |
| 720-1025-5                      | BB3A/B COMP2                | Solid         | 3550B  |            |
| <b>Analysis Batch: 720-3234</b> |                             |               |        |            |
| LCS 720-3145/2-B                | Lab Control Spike           | Solid         | 8015B  | 720-3145   |
| LCSD 720-3145/3-B               | Lab Control Spike Duplicate | Solid         | 8015B  | 720-3145   |
| MB 720-3145/1-B                 | Method Blank                | Solid         | 8015B  | 720-3145   |
| 720-1025-5                      | BB3A/B COMP2                | Solid         | 8015B  | 720-3145   |
| <b>Analysis Batch: 720-3372</b> |                             |               |        |            |
| LCS 720-3277/2-A                | Lab Control Spike           | Solid         | 8081A  | 720-3277   |
| LCSD 720-3277/3-A               | Lab Control Spike Duplicate | Solid         | 8081A  | 720-3277   |
| MB 720-3277/1-A                 | Method Blank                | Solid         | 8081A  | 720-3277   |
| 720-1025-5                      | BB3A/B COMP2                | Solid         | 8081A  | 720-3277   |

## Quality Control Results

Client: Performance Excavators Inc

Job Number: 720-1025-1

### QC Association Summary

| Lab Sample ID                   | Client Sample ID            | Client Matrix | Method | Prep Batch |
|---------------------------------|-----------------------------|---------------|--------|------------|
| <b>Metals</b>                   |                             |               |        |            |
| <b>Prep Batch: 720-3264</b>     |                             |               |        |            |
| LCS 720-3264/2-A                | Lab Control Spike           | Solid         | 7471A  |            |
| LCSD 720-3264/3-A               | Lab Control Spike Duplicate | Solid         | 7471A  |            |
| MB 720-3264/1-A                 | Method Blank                | Solid         | 7471A  |            |
| 720-1025-5                      | BB3A/B COMP2                | Solid         | 7471A  |            |
| <b>Prep Batch: 720-3289</b>     |                             |               |        |            |
| LCS 720-3289/2-A                | Lab Control Spike           | Solid         | 3050B  |            |
| LCSD 720-3289/3-A               | Lab Control Spike Duplicate | Solid         | 3050B  |            |
| MB 720-3289/1-A                 | Method Blank                | Solid         | 3050B  |            |
| 720-1025-5                      | BB3A/B COMP2                | Solid         | 3050B  |            |
| <b>Analysis Batch: 720-3304</b> |                             |               |        |            |
| LCS 720-3264/2-A                | Lab Control Spike           | Solid         | 7471A  | 720-3264   |
| LCSD 720-3264/3-A               | Lab Control Spike Duplicate | Solid         | 7471A  | 720-3264   |
| MB 720-3264/1-A                 | Method Blank                | Solid         | 7471A  | 720-3264   |
| 720-1025-5                      | BB3A/B COMP2                | Solid         | 7471A  | 720-3264   |
| <b>Analysis Batch: 720-3324</b> |                             |               |        |            |
| LCS 720-3289/2-A                | Lab Control Spike           | Solid         | 6010B  | 720-3289   |
| LCSD 720-3289/3-A               | Lab Control Spike Duplicate | Solid         | 6010B  | 720-3289   |
| MB 720-3289/1-A                 | Method Blank                | Solid         | 6010B  | 720-3289   |
| 720-1025-5                      | BB3A/B COMP2                | Solid         | 6010B  | 720-3289   |

STL San Francisco

## Quality Control Results

Client: Performance Excavators Inc

Job Number: 720-1026-1

Method Blank - Batch: 720-3145

Method: 8015B  
Preparation: 3550B

Lab Sample ID: MB 720-3145/1-3  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/17/2005 0816  
Date Prepared: 12/16/2005 1028

Analysis Batch: 720-3234  
Prep Batch: 720-3145  
Units: mg/Kg

Instrument ID: HP DRO3  
Lab File ID: N/A  
Initial Weight/Volume: 30.22 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

| Analyte                            | Result | Qual              | RL   |
|------------------------------------|--------|-------------------|------|
| Diesel Range Organics [C10-C25]    | ND     |                   | 0.89 |
| Motor Oil Range Organics [C24-C36] | ND     |                   | 50   |
| Surrogate                          | % Rec  | Acceptance Limits |      |
| o-Terphenyl                        | 68     | 60 - 130          |      |

Laboratory Control/  
Laboratory Control Duplicate Recovery Report - Batch: 720-3145

Method: 8015B  
Preparation: 3550B

LCS Lab Sample ID: LCS 720-3145/2-B  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/17/2005 2043  
Date Prepared: 12/16/2005 1028

Analysis Batch: 720-3234  
Prep Batch: 720-3145  
Units: mg/Kg

Instrument ID: HP DRO3  
Lab File ID: N/A  
Initial Weight/Volume: 30.14 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-3145/3-B  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/17/2005 2110  
Date Prepared: 12/16/2005 1028

Analysis Batch: 720-3234  
Prep Batch: 720-3145  
Units: mg/Kg

Instrument ID: HP DRO3  
Lab File ID: N/A  
Initial Weight/Volume: 30.35 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

| Analyte                         | % Rec     |      | Limit      | RPD | RPD Limit         | LCS Qual | LCSD Qual |
|---------------------------------|-----------|------|------------|-----|-------------------|----------|-----------|
|                                 | LCS       | LCSD |            |     |                   |          |           |
| Diesel Range Organics [C10-C25] | 99        | 93   | 60 - 130   | 7   | 30                |          |           |
| Surrogate                       | LCS % Rec |      | LCSD % Rec |     | Acceptance Limits |          |           |
| o-Terphenyl                     | 78        |      | 79         |     | 60 - 130          |          |           |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Performance Excavators Inc

Job Number: 720-1025-1

**Method Blank - Batch: 720-3277**

**Method: 8081A  
Preparation: 3550B**

Lab Sample ID: MB 720-3277/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/20/2005 1157  
Date Prepared: 12/19/2005 1557

Analysis Batch: 720-3372  
Prep Batch: 720-3277  
Units: ug/Kg

Instrument ID: Varian Pest 2  
Lab File ID: N/A  
Initial Weight/Volume: 30.01 g  
Final Weight/Volume: 10 mL  
Injection Volume:  
Column ID: PRIMARY

| Analyte                | Result | Qual              | RL  |
|------------------------|--------|-------------------|-----|
| Aldrin                 | ND     |                   | 2.0 |
| Dieldrin               | ND     |                   | 2.0 |
| Endrin aldehyde        | ND     |                   | 2.0 |
| Endrin                 | ND     |                   | 2.0 |
| Endrin ketone          | ND     |                   | 2.0 |
| Heptachlor             | ND     |                   | 2.0 |
| Heptachlor epoxide     | ND     |                   | 2.0 |
| 4,4'-DDT               | ND     |                   | 2.0 |
| 4,4'-DDE               | ND     |                   | 2.0 |
| 4,4'-DDD               | ND     |                   | 2.0 |
| Endosulfan I           | ND     |                   | 2.0 |
| Endosulfan II          | ND     |                   | 2.0 |
| alpha-BHC              | ND     |                   | 2.0 |
| beta-BHC               | ND     |                   | 2.0 |
| gamma-BHC (Lindane)    | ND     |                   | 2.0 |
| delta-BHC              | ND     |                   | 2.0 |
| Endosulfan sulfate     | ND     |                   | 2.0 |
| Methoxychlor           | ND     |                   | 2.0 |
| Toxaphene              | ND     |                   | 100 |
| Chlordane (technical)  | ND     |                   | 50  |
| alpha-Chlordane        | ND     |                   | 2.0 |
| gamma-Chlordane        | ND     |                   | 2.0 |
| Surrogate              | % Rec  | Acceptance Limits |     |
| Tetrachloro-m-xylene   | 88     | 50 - 125          |     |
| DCB Decachlorobiphenyl | 80     | 46 - 142          |     |

Calculations are performed before rounding to avoid round-off errors in calculated results.



## Quality Control Results

Client: Performance Excavators Inc

Job Number: 720-025-1

Laboratory Control/  
Laboratory Control Duplicate Recovery Report - Batch: 720-3277

Method: 8081A  
Preparation: 3550B

LCS Lab Sample ID: LCS 720-3277/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/20/2005 1228  
Date Prepared: 12/19/2005 1557

Analysis Batch: 720-3372  
Prep Batch: 720-3277  
Units: ug/Kg

Instrument ID: Varian Pest 2  
Lab File ID: N/A  
Initial Weight/Volume: 30.03 g  
Final Weight/Volume: 10 mL  
Injection Volume:  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-3277/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/20/2005 1259  
Date Prepared: 12/19/2005 1557

Analysis Batch: 720-3372  
Prep Batch: 720-3277  
Units: ug/Kg

Instrument ID: Varian Pest 2  
Lab File ID: N/A  
Initial Weight/Volume: 30.00 g  
Final Weight/Volume: 10 mL  
Injection Volume:  
Column ID: PRIMARY

| Analyte                | % Rec |      | Limit    | RPD | RPD Limit         | LCS Qual | LCSD Qual |
|------------------------|-------|------|----------|-----|-------------------|----------|-----------|
|                        | LCS   | LCSD |          |     |                   |          |           |
| Aldrin                 | 99    | 101  | 37 - 136 | 2   | 35                |          |           |
| Die drin               | 101   | 102  | 58 - 135 | 1   | 35                |          |           |
| Endrin                 | 102   | 101  | 58 - 134 | 0   | 35                |          |           |
| Heptachlor             | 99    | 100  | 40 - 136 | 1   | 35                |          |           |
| 4,4'-DDE               | 100   | 100  | 55 - 132 | 1   | 35                |          |           |
| gamma-BHC (Lindane)    | 88    | 99   | 37 - 137 | 1   | 35                |          |           |
| Surrogate              | % Rec |      | % Rec    |     | Acceptance Limits |          |           |
| Tetrachloro-m-xylene   | 91    |      | 93       |     | 50 - 125          |          |           |
| DCB Decachlorobiphenyl | 89    |      | 89       |     | 46 - 142          |          |           |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Performance Excavators Inc

Job Number: 720-1025-1

Method Blank - Batch: 720-3289

Method: 6010B

Preparation: 3050B

Lab Sample ID: MB 720-3289/1-A

Analysis Batch: 720-3334

Instrument ID: Varian ICP

Client Matrix: Solid

Prep Batch: 720-3289

Lab File ID: N/A

Dilution: 1.0

Units: mg/Kg

Initial Weight/Volume: 1 g

Date Analyzed: 12/20/2005 1344

Final Weight/Volume: 50 mL

Date Prepared: 12/20/2005 0739

| Analyte    | Result | Qual | RL   |
|------------|--------|------|------|
| Silver     | ND     |      | 1.0  |
| Arsenic    | ND     |      | 1.0  |
| Barium     | ND     |      | 1.0  |
| Beryllium  | ND     |      | 0.50 |
| Cadmium    | ND     |      | 0.50 |
| Cobalt     | ND     |      | 1.0  |
| Chromium   | ND     |      | 1.0  |
| Copper     | ND     |      | 1.0  |
| Iron       | ND     |      | 1.0  |
| Molybdenum | ND     |      | 1.0  |
| Nickel     | ND     |      | 1.0  |
| Lead       | ND     |      | 1.0  |
| Antimony   | ND     |      | 2.0  |
| Selenium   | ND     |      | 2.0  |
| Thallium   | ND     |      | 1.0  |
| Vanadium   | ND     |      | 1.0  |
| Zinc       | ND     |      | 1.0  |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Performance Excavators Inc

Job Number: 720-1025-1

**Laboratory Control/  
Laboratory Control Duplicate Recovery Report - Batch: 720-3289**

**Method: 6010B  
Preparation: 3050B**

LCS Lab Sample ID: LCS 720-3289/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/20/2005 1347  
Date Prepared: 12/20/2005 0739

Analysis Batch: 720-3334  
Prep Batch: 720-3289  
Units: mg/Kg

Instrument ID: Varian ICP  
Lab File ID: N/A  
Initial Weight/Volume: 1 g  
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-3289/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/20/2005 1351  
Date Prepared: 12/20/2005 0739

Analysis Batch: 720-3334  
Prep Batch: 720-3289  
Units: mg/Kg

Instrument ID: Varian ICP  
Lab File ID: N/A  
Initial Weight/Volume: 1 g  
Final Weight/Volume: 50 mL

| Analyte    | % Rec |      | Limit    | RPD | RPD Limit | LCS Qual | LCSD Qual |
|------------|-------|------|----------|-----|-----------|----------|-----------|
|            | LCS   | LCSD |          |     |           |          |           |
| Silver     | 98    | 98   | 80 - 120 | 1   | 20        |          |           |
| Arsenic    | 101   | 102  | 80 - 120 | 1   | 20        |          |           |
| Barium     | 99    | 100  | 80 - 120 | 0   | 20        |          |           |
| Beryllium  | 97    | 98   | 80 - 120 | 1   | 20        |          |           |
| Cadmium    | 99    | 99   | 80 - 120 | 0   | 20        |          |           |
| Cobalt     | 97    | 98   | 80 - 120 | 1   | 20        |          |           |
| Chromium   | 99    | 99   | 80 - 120 | 0   | 20        |          |           |
| Copper     | 99    | 99   | 80 - 120 | 1   | 20        |          |           |
| Iron       | 98    | 99   | 80 - 120 | 1   | 20        |          |           |
| Molybdenum | 101   | 102  | 80 - 120 | 1   | 20        |          |           |
| Nickel     | 98    | 98   | 80 - 120 | 1   | 20        |          |           |
| Lead       | 97    | 98   | 80 - 120 | 1   | 20        |          |           |
| Antimony   | 93    | 97   | 80 - 120 | 4   | 20        |          |           |
| Selenium   | 102   | 102  | 80 - 120 | 0   | 20        |          |           |
| Thallium   | 99    | 100  | 80 - 120 | 1   | 20        |          |           |
| Vanadium   | 99    | 100  | 80 - 120 | 1   | 20        |          |           |
| Zinc       | 98    | 98   | 80 - 120 | 1   | 20        |          |           |

Calculations are performed before rounding to avoid round-off errors in calculated results

## Quality Control Results

Client: Performance Excavators Inc

Job Number: 720-1025-1

### Method Blank - Batch: 720-3264

Method: 7471A  
Preparation: 7471A

Lab Sample ID: MB 720-3264/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/20/2005 1026  
Date Prepared: 12/19/2005 1455

Analysis Batch: 720-3304  
Prep Batch: 720-3264  
Units: mg/Kg

Instrument ID: FIMS 100  
Lab File ID: N/A  
Initial Weight/Volume: 1 g  
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL    |
|---------|--------|------|-------|
| Mercury | ND     |      | 0.050 |

### Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 720-3264

Method: 7471A  
Preparation: 7471A

LCS Lab Sample ID: LCS 720-3264/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/20/2005 1027  
Date Prepared: 12/19/2005 1455

Analysis Batch: 720-3304  
Prep Batch: 720-3264  
Units: mg/Kg

Instrument ID: FIMS 100  
Lab File ID: N/A  
Initial Weight/Volume: 1 g  
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-3264/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 12/20/2005 1028  
Date Prepared: 12/19/2005 1455

Analysis Batch: 720-3304  
Prep Batch: 720-3264  
Units: mg/Kg

Instrument ID: FIMS 100  
Lab File ID: N/A  
Initial Weight/Volume: 1 g  
Final Weight/Volume: 50 mL

| Analyte | % Rec. |      | Limit    | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---------|--------|------|----------|-----|-----------|----------|-----------|
|         | LCS    | LCSD |          |     |           |          |           |
| Mercury | 102    | 101  | 85 - 115 | 1   | 20        |          |           |

Calculations are performed before rounding to avoid round-off errors in calculated results.



## LOGIN SAMPLE RECEIPT CHECK LIST

Client: Performance Excavators Inc

Job Number: 720-1025-1

Login Number: 1025

| Question   | T/F/NA | Comment  |
|--|--------|----------|
| Radioactivity either was not measured or, if measured, is at or below background | NA     |          |
| The cooler's custody seal, if present.   | NA     |          |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |          |
| Samples were received on ice.  | True   |          |
| Cooler Temperature is acceptable.  | True   |          |
| Cooler Temperature is recorded.  | True   |          |
| COC is present.  | True   |          |
| COC is filled out in ink and legible.  | True   |          |
| COC is filled out with all pertinent information.                                | True   |          |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |          |
| Samples are received within Holding Time.  | True   |          |
| Sample containers have legible labels.   | True   |          |
| Containers are not broken or leaking.  | True   |          |
| Sample collection date/times are provided.                                       | True   |          |
| Appropriate sample containers are used.  | True   |          |
| Sample bottles are completely filled.  | True   |          |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |          |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |          |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |          |
| Multiphasic samples are not present  | True   |          |
| Samples do not require splitting or compositing                                  | False  | COMP 4:1 |

## **APPENDIX B**

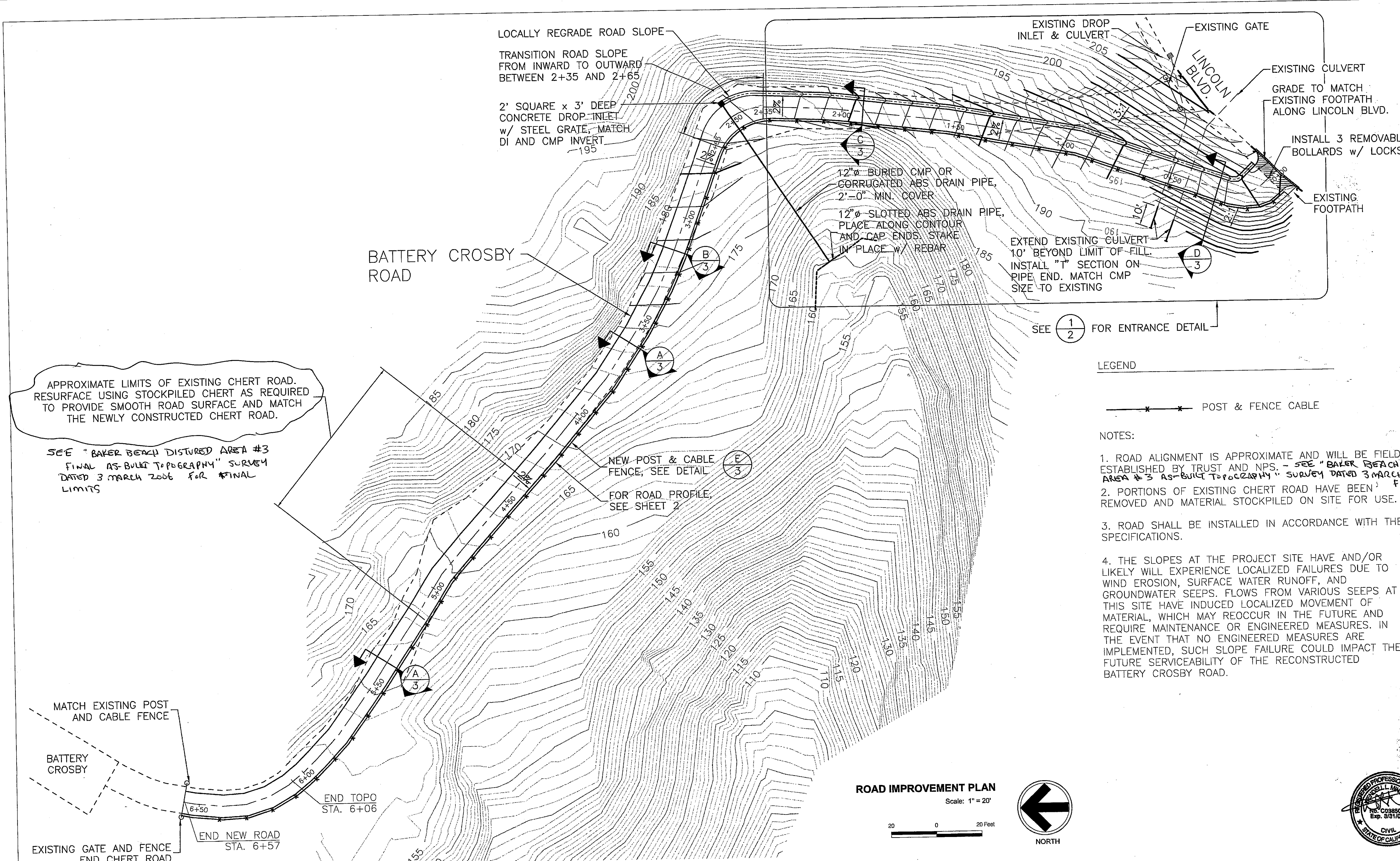
### ***Baker Beach Disturbed Area #3, Final As-Built Topography***

(R.W. Davis & Associates, 20 March 2006) and ***Revised As-Built, BBDA 3 Road Improvement Plan (Design Drawing As-Built)*** (Minshew Engineering and Treadwell & Rollo, revised by Performance Excavators, 2006)









APPROXIMATE LIMITS OF EXISTING CHERT ROAD. RESURFACE USING STOCKPILED CHERT AS REQUIRED TO PROVIDE SMOOTH ROAD SURFACE AND MATCH THE NEWLY CONSTRUCTED CHERT ROAD.

SEE "BAKER BEACH DISTURBED AREA #3 FINAL AS-BUILT TOPOGRAPHY" SURVEY DATED 3 MARCH 2006 FOR FINAL LIMITS

MATCH EXISTING POST AND CABLE FENCE

BATTERY CROSBY

EXISTING GATE AND FENCE

END NEW ROAD STA. 6+57

END TOPO STA. 6+06

LEGEND

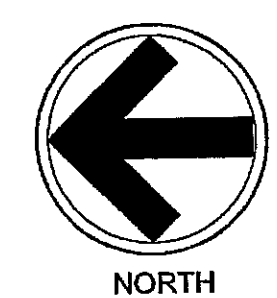
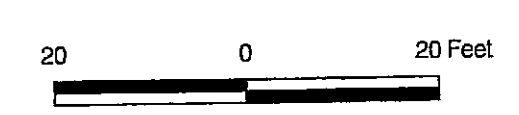
— \* — \* — POST & FENCE CABLE

NOTES:

1. ROAD ALIGNMENT IS APPROXIMATE AND WILL BE FIELD ESTABLISHED BY TRUST AND NPS. - SEE "BAKER BEACH DISTURBED AREA #3 AS-BUILT TOPOGRAPHY" SURVEY DATED 3 MARCH 2006 FOR FINAL ALIGNMENT
2. PORTIONS OF EXISTING CHERT ROAD HAVE BEEN REMOVED AND MATERIAL STOCKPILED ON SITE FOR USE.
3. ROAD SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS.
4. THE SLOPES AT THE PROJECT SITE HAVE AND/OR LIKELY WILL EXPERIENCE LOCALIZED FAILURES DUE TO WIND EROSION, SURFACE WATER RUNOFF, AND GROUNDWATER SEEPS. FLOWS FROM VARIOUS SEEPS AT THIS SITE HAVE INDUCED LOCALIZED MOVEMENT OF MATERIAL, WHICH MAY REOCCUR IN THE FUTURE AND REQUIRE MAINTENANCE OR ENGINEERED MEASURES. IN THE EVENT THAT NO ENGINEERED MEASURES ARE IMPLEMENTED, SUCH SLOPE FAILURE COULD IMPACT THE FUTURE SERVICEABILITY OF THE RECONSTRUCTED BATTERY CROSBY ROAD.

ROAD IMPROVEMENT PLAN

Scale: 1" = 20'



| REV. | DATE     | DESCRIPTION                   | BY  | CHKD. | APP. |
|------|----------|-------------------------------|-----|-------|------|
| F    | 7/12/06  | REVISED - AS-BUILT            |     |       | MAC  |
| E    | 11/14/05 | REVISED AND ISSUED FOR USE    | WLM | WLM   | WLM  |
| D    | 9/30/05  | ISSUED FOR USE                | WLM | WLM   | WLM  |
| C    | 9/14/05  | REVISED AND ISSUED FOR REVIEW | WLM | WLM   | WLM  |
| B    | 2/10/05  | REVISED AND ISSUED FOR REVIEW | WLM | WLM   | WLM  |
| A    | 12/14/04 | ISSUED FOR REVIEW             | WLM | WLM   | WLM  |

These construction drawings and specifications have been prepared in accordance with design criteria and requirements established by the Presidio Trust (Trust) and National Park Service (NPS). The Trust and NPS prefer that erosion control materials be limited to non-mechanical, biodegradable products and that the slopes be permitted to evolve under naturally occurring processes. Advance notice to these criteria and requirements has resulted in a final design that will likely result in slope instability typical of the natural shoreline. The engineer-of-record, (Minshew, P.E.), has discussed these issues with Trust and NPS staff. Trust and NPS staff understand and accept that slope instability and erosion characteristic of the Pacific coastline will likely occur.

|               |        |
|---------------|--------|
| DRAWING SCALE | 1"=20' |
| DESIGNED BY:  | WLM    |
| DRAWN BY:     | MLI    |
| CHECKED BY:   | WLM    |
| APPROVED BY:  | WLM    |

**Treadwell & Rollo**  
Environmental and Geotechnical Consultants  
555 Montgomery Street, Suite 1300  
San Francisco, California  
(415) 955-8040

**ME Minshew Engineering**  
Professional Civil Engineering and  
Solid Waste Management Services

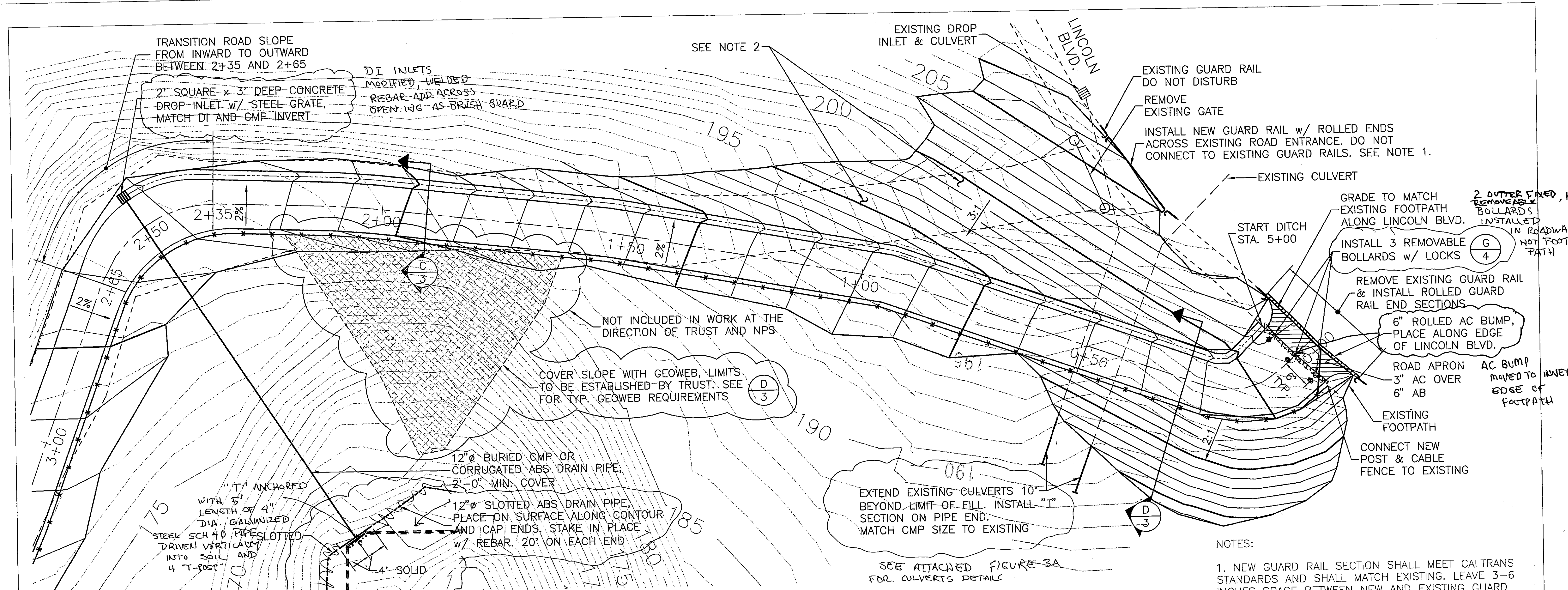


**Presidio Trust**  
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San Francisco, CA  
94129-0052  
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fax 415/561-5315

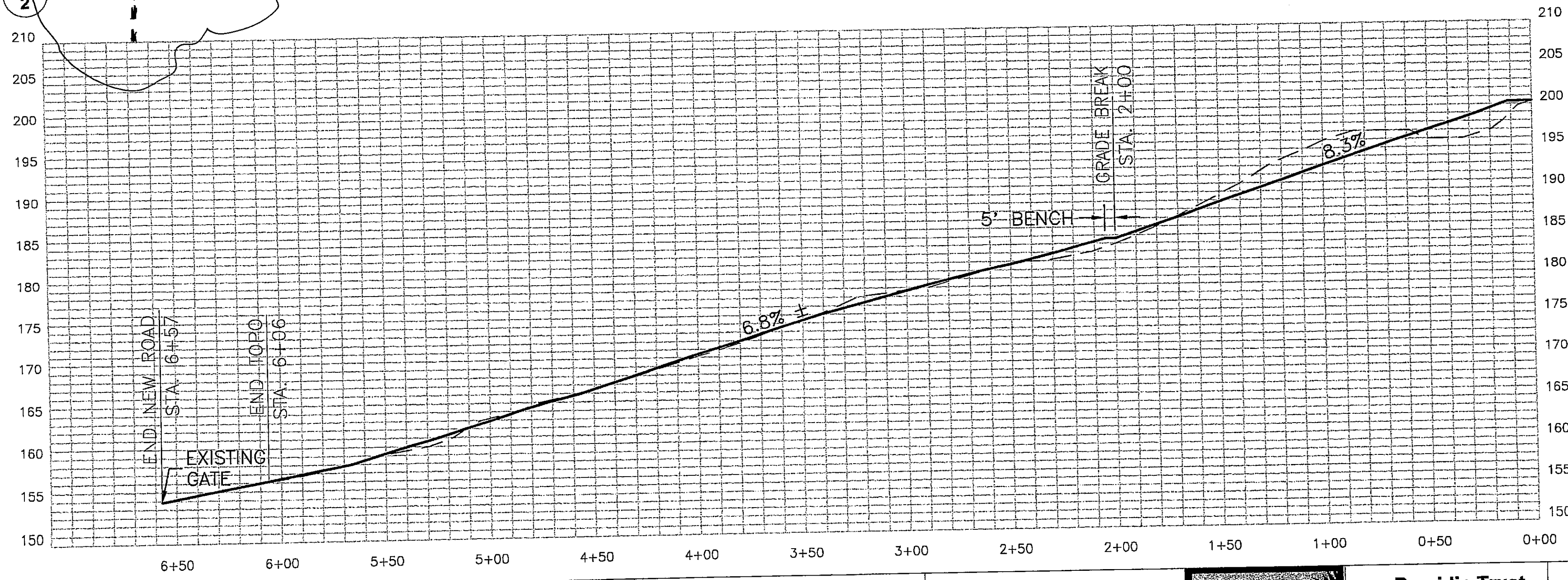
BAKER BEACH DISTURBED AREAS 3 AND 4  
CLEAN CLOSURE  
**BBDA 3**  
**ROAD IMPROVEMENT PLAN**

|           |      |
|-----------|------|
| JOB NO.   | 2001 |
| REVISION  | E    |
| SHEET NO. | 1    |





**ENTRANCE DETAIL**  
Scale: H: 1" = 10'



**ROAD ALIGNMENT PROFILE**  
Scale: V: 1" = 10'  
H: 1" = 40'

- NOTES:
1. NEW GUARD RAIL SECTION SHALL MEET CALTRANS STANDARDS AND SHALL MATCH EXISTING. LEAVE 3-6 INCHES SPACE BETWEEN NEW AND EXISTING GUARD RAIL, OR OFFSET AND OVERLAP ENDS OF GUARD RAIL.
  2. FINAL SURFACE IN THE AREA NORTH OF THE NEW ROADWAY ALIGNMENT SHALL CONSIST OF 2 FEET MINIMUM THICKNESS OF SAND. IF EXCAVATED SURFACE DOES NOT RESULT IN 2 FEET OF UNDERLYING SAND, 2 FEET OF EXISTING MATERIAL SHALL BE OVER EXCAVATED AND REPLACED WITH 2 FEET OF SAND. SAND SOURCE WILL BE PROVIDED BY TRUST.

| REV. | DATE     | DESCRIPTION                 | BY  | CHK. | APP. |
|------|----------|-----------------------------|-----|------|------|
| F    | 2/20/06  | REVISED - AS-BUILT          |     |      |      |
| E    | 11/14/05 | REVISED AND ISSUED FOR USE  | WLM | WLM  | WLM  |
| D    | 9/30/05  | ISSUED FOR USE              | WLM | WLM  | WLM  |
| C    | 9/14/05  | REVISED & ISSUED FOR REVIEW | WLM | WLM  | WLM  |
| B    | 2/10/05  | REVISED & ISSUED FOR REVIEW | WLM | WLM  | WLM  |
| A    | 12/14/04 | ISSUED FOR REVIEW           | WLM | WLM  | WLM  |

These construction drawings and specifications have been prepared in accordance with design criteria and requirements established by the Presidio Trust (Trust) and National Park Service (NPS). The Trust and NPS prefer that erosion control materials be limited to non-mechanical, biodegradable products and that the slopes be permitted to evolve under naturally occurring processes. Adherence to these criteria and requirements has resulted in a final design that will likely result in slope instability typical of the natural shoreline. The engineer-of-record, (Treadwell & Rollo, P.E.), has discussed these issues with Trust and NPS staff. Trust and NPS staff understand and accept that slope instability and erosion characteristic of the Pacific coastline will likely occur.

| DRAWING SCALE |  | AS NOTED |
|---------------|--|----------|
| DESIGNED BY:  |  | WLM      |
| DRAWN BY:     |  | MLI      |
| CHECKED BY:   |  | WLM      |
| APPROVED BY:  |  | WLM      |

**Treadwell & Rollo**  
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**ME Minshew Engineering**  
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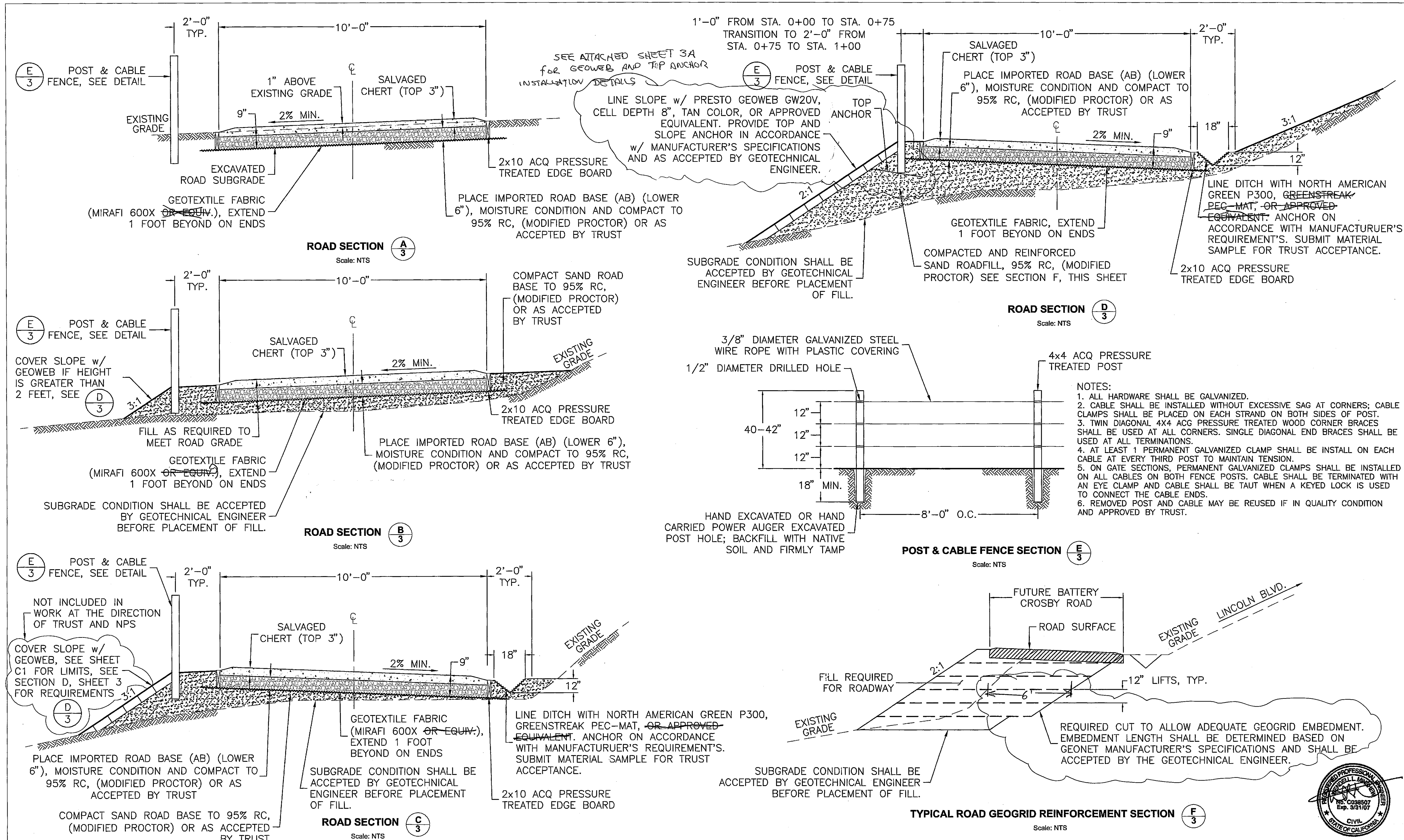
**BAKER BEACH DISTURBED AREAS 3 AND 4  
CLEAN CLOSURE**

**BBDA 3  
PROFILE AND CROSS SECTIONS**

|           |      |
|-----------|------|
| JOB NO.   | 2001 |
| REVISION  | E    |
| SHEET NO. | 2    |







| REV. | DATE     | DESCRIPTION                 | BY  | CHKD. | APP. |
|------|----------|-----------------------------|-----|-------|------|
| F    | 7/20/04  | REVISED AS-BUILT            |     |       |      |
| E    | 11/14/05 | REVISED AND ISSUED FOR USE  | WLM | WLM   | WLM  |
| D    | 9/30/05  | ISSUED FOR USE              | WLM | WLM   | WLM  |
| C    | 9/14/05  | REVISED & ISSUED FOR REVIEW | WLM | WLM   | WLM  |
| B    | 2/10/05  | REVISED & ISSUED FOR REVIEW | WLM | WLM   | WLM  |
| A    | 12/14/04 | ISSUED FOR REVIEW           | WLM | WLM   | WLM  |

These construction drawings and specifications have been prepared in accordance with design criteria and requirements established by the Presidio Trust (Trust) and National Park Service (NPS). The Trust and NPS prefer that erosion control materials be limited to non-mechanical, biodegradable products and that the slopes be permitted to evolve under naturally occurring processes. Adherence to these criteria and requirements has resulted in a final design that will likely result in slope instability typical of the natural shoreline. The engineer-of-record, (Wendell Minshew, P.E.), has discussed these issues with Trust and NPS staff. Trust and NPS staff understand and accept that slope instability and erosion characteristic of the Pacific coastline will likely occur.

| DRAWING SCALE | AS NOTED |
|---------------|----------|
| DESIGNED BY:  | WLM      |
| DRAWN BY:     | MLJ      |
| CHECKED BY:   | WLM      |
| APPROVED BY:  | WLM      |

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**ME Minshew Engineering**  
Professional Civil Engineering and  
Solid Waste Management Services



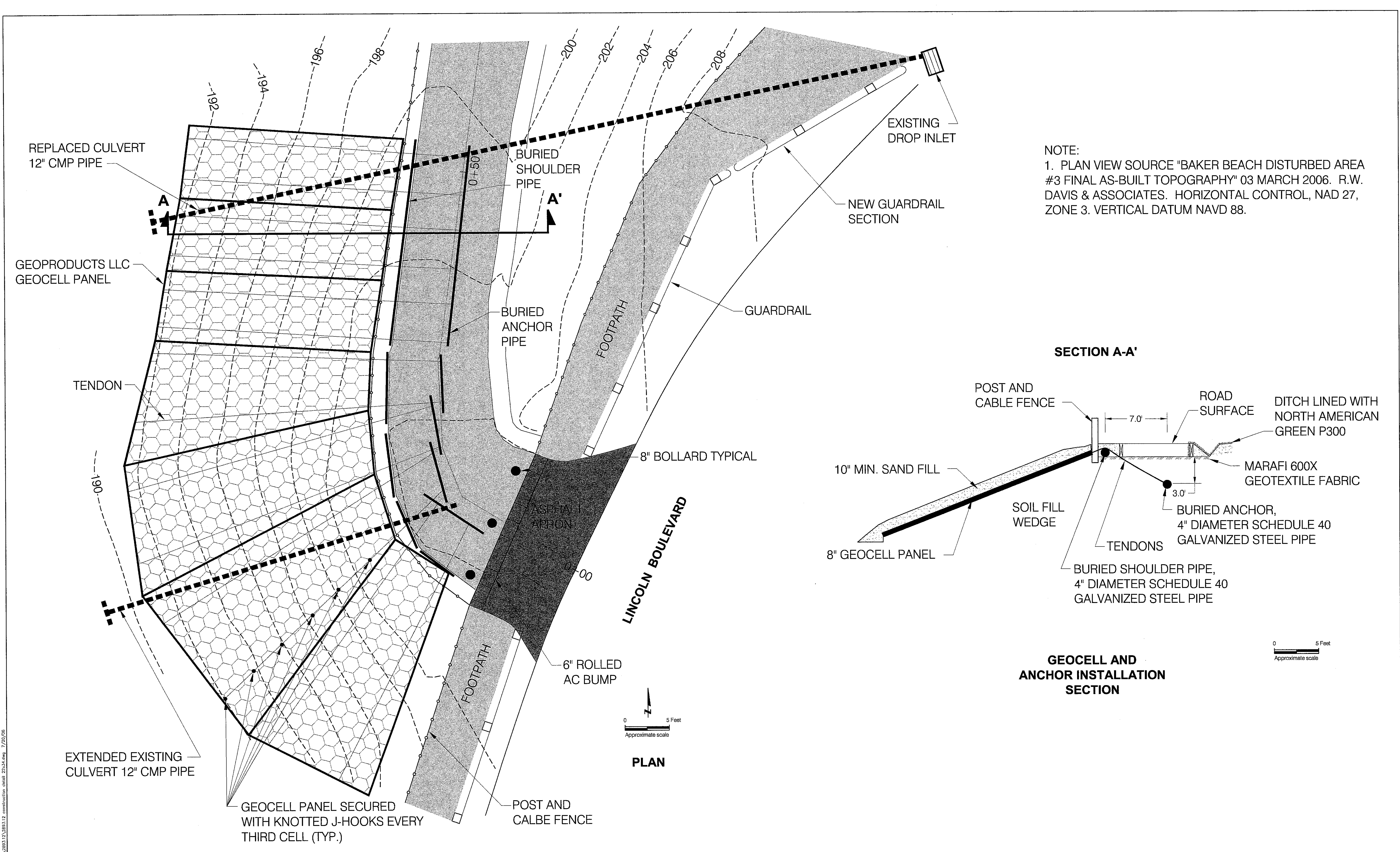
**Presidio Trust**  
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P.O. Box 29052  
San Francisco, CA  
94129-0052  
415/561-5300  
fax 415/561-5315

**BAKER BEACH DISTURBED AREAS 3 AND 4  
CLEAN CLOSURE**

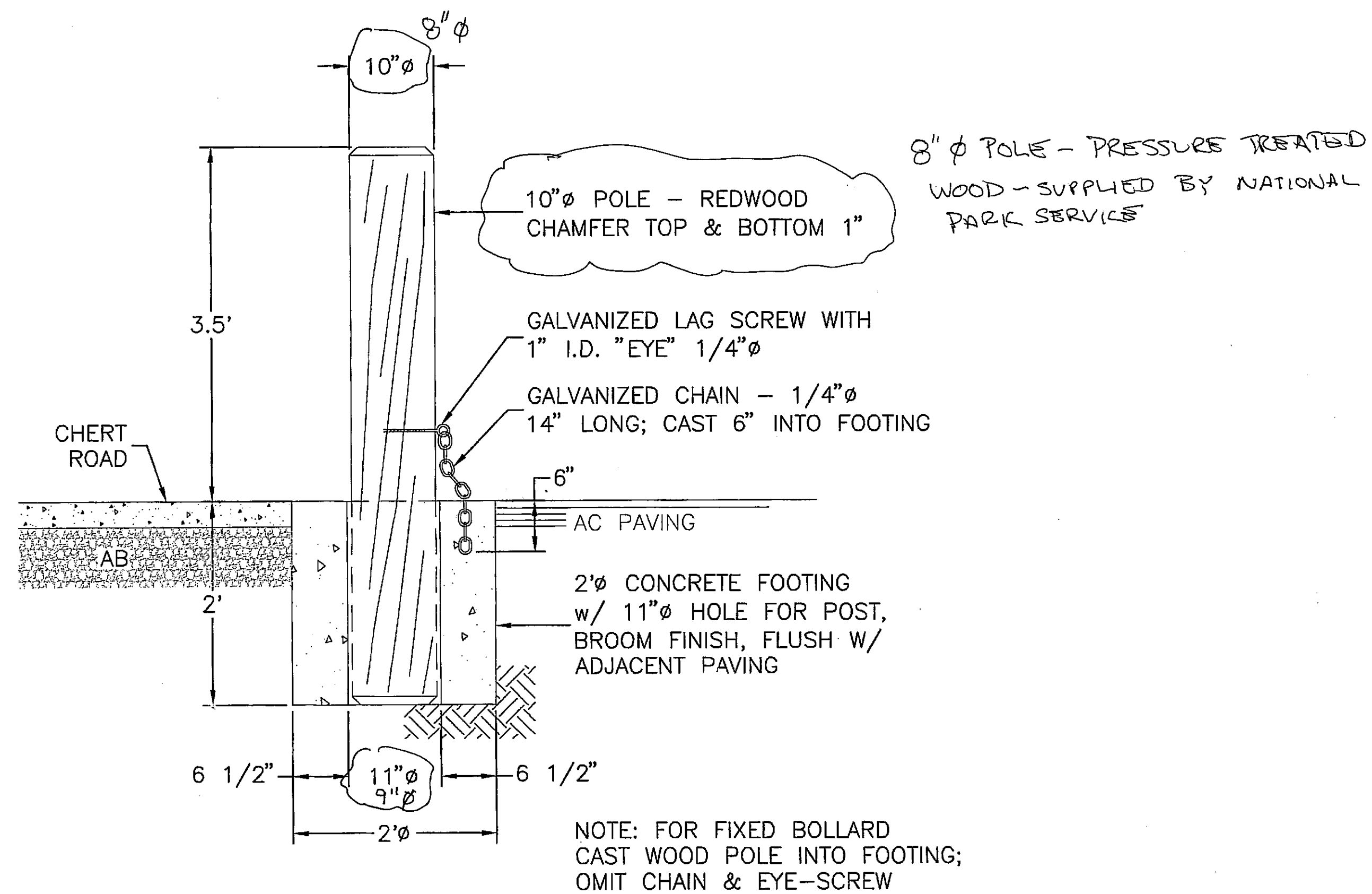
**BBDA 3  
PROFILE AND CROSS SECTIONS**

|           |      |
|-----------|------|
| JOB NO.   | 2001 |
| REVISION  | E    |
| SHEET NO. | 3    |





|      |         |             |  |  |    |                     |      |  |  |                 |  |
|------|---------|-------------|--|--|----|---------------------|------|--|--|-----------------|--|
|      |         |             |  |  |    | DRAWING SCALE 1"=5' |      | <div><div>Treadwell&amp;Rollo</div><div>Environmental and Geotechnical Consultants</div><div>555 Montgomery Street, Suite 1300</div><div>San Francisco, California</div><div>(415) 955-9040</div></div> <div><div>THE PRESIDIO TRUST</div></div> | <div><div>Presidio Trust</div><div>34 Graham Street</div><div>P.O. Box 29052</div><div>San Francisco, CA</div><div>94129-0052</div><div>415/561-5300</div><div>fax 415/561-5315</div></div> <div><div>BAKER BEACH DISTURBED AREAS 3 AND 4</div><div>CLEAN CLOSURE</div><div>BBDA 3</div><div>BATTERY CROSBY ROAD</div></div> | JOB NO. 2893.12 |  |
|      |         |             |  |  |    | DESIGNED BY:        |      |  |  | REVISION        |  |
|      |         |             |  |  |    | DRAWN BY:           |      |  |  | SHEET NO.       |  |
|      |         |             |  |  |    | CHECKED BY: MAC     |      |  |  | 3A              |  |
|      |         |             |  |  |    | APPROVED BY:        |      |  |  |                 |  |
| REV. | DATE    | DESCRIPTION |  |  | BY | CHKD.               | APP. |  |  |                 |  |
| A    | 7/14/06 | AS BUILT    |  |  |    |                     |      |  |  |                 |  |




WOODEN BOLLARD - FIXED & REMOVABLE SECTION

Scale: NTS

G  
4



|  |  |  |  |  |  |  |  |  |  |                        |  |  |  |   |  |  |  |   |  |              |  |
|--|--|--|--|--|--|--|--|--|--|------------------------|--|--|--|---|--|--|--|---|--|--------------|--|
|  |  |  |  |  | These construction drawings and specifications have been prepared in accordance with design criteria and requirements established by the Presidio Trust (Trust) and National Park Service (NPS). The Trust and NPS prefer that erosion control materials be limited to non-mechanical, biodegradable products and that the slopes be permitted to evolve under naturally occurring processes. Adherence to these criteria and requirements has resulted in a final design that will likely result in slope instability typical of the natural shoreline. The engineer-of-record, (Wendell Minshew, P.E.), has discussed these issues with Trust and NPS staff. Trust and NPS staff understand and accept that slope instability and erosion characteristic of the Pacific coastline will likely occur. |  |  |  |  | DRAWING SCALE AS NOTED |  | <b>Treadwell &amp; Rollo</b><br>Environmental and Geotechnical Consultants<br>555 Montgomery Street, Suite 1300<br>San Francisco, California<br>(415) 955-9040 |  |  |  | <b>Presidio Trust</b><br>34 Graham Street<br>P.O. Box 29052<br>San Francisco, CA<br>94129-0052<br>415/561-5300<br>fax 415/561-5315 |  | BAKER BEACH DISTURBED AREAS 3 AND 4<br>CLEAN CLOSURE<br>BBDA 3<br>CROSS SECTION |  | JOB NO. 2001 |  |
|  |  |  |  |  |  |  |  |  |  | DESIGNED BY: WLM       |  |  |  |   |  | REVISION D   |  |   |  |              |  |
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**APPENDIX C**  
**Trucking Waste Manifests**



Ticket: 827579

15 December 2005 10:01 am  
10:01 am



Ox Mountain Landfill  
(650) 726-1819

004640

PERFORMANCE EXCAVATORS

OX MOUNTAIN LANDFILL

Vehicle: TRUCK1

Reference: 408

Origin: SAN FRANCISCO

Date / Time: 20.00 YD

Contract: GATE RATE

Weightmaster: ORLANDO

| Description        | Quantity | Unit | Extension | Tendered: |
|--------------------|----------|------|-----------|-----------|
| BUTTRESS-CLEANFILL | 8.00     | YD   | \$9.00    | \$72.00   |
|                    |          |      |           | \$0.00    |

Tax

\$0.00

\$72.00

Total

\$72.00

I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE:

*[Handwritten Signature]*

408/715

Ticket: 83774

15 December 2005

12:19 pm  
12:19 pm



Ox Mountain Landfill  
(650) 726-1819

004640  
PERFORMANCE EXCAVATORS  
Vehicle: TRUCK1

OX MOUNTAIN LANDFILL

Reference: 408

Origin: SAN FRANCISCO

Date / Time: 20.00 YD

Contract: GATE RATE

Weighmaster: ORLANDO

| Description        | Quantity | Unit | Extension | Tendered: \$0.00 |
|--------------------|----------|------|-----------|------------------|
| BUTTRESS-CLEAN ILL | 8.00     | YD   | \$72.00   |                  |

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| Tax |  |  | \$0.00 |  |
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\$72.00

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| Total |  |  | \$72.00 |  |
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I hereby certify that this load does not contain any unauthorized waste.

SIGNATURE

*[Signature]*

260-11617

Ticket: 832578

15 December 2005

9:58 am  
7:58 am



Ox Mountain Landfill  
(650) 726-1819

004640  
PERFORMANCE EXCAVATORS  
Vehicle: TRUCK1

OX MOUNTAIN LANDFILL

Reference: 408

Origin: SAN FRANCISCO

Date / Time: 20.00 YD

Contract: GATE RATE

Weighmaster: ORLANDO

| Description        | Quantity | Unit | Extension | Tendered: \$0.00 |
|--------------------|----------|------|-----------|------------------|
| BUTTRESS-CLEAN ILL | 8.00     | YD   | \$72.00   |                  |

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| Total |  |  | \$72.00 |  |
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I hereby certify that this load does not contain any unauthorized waste.

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*[Signature]*

260-11617



**West Contra Costa  
Sanitary Landfill, Inc.**

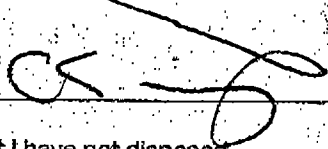
Office (510) 231-4156 Landfill (510) 233-4330  
Foot of Parr Boulevard, Richmond, CA 94801

TICKET: 883821  
DATE: 12/08/2005  
TIME: 10:05 - 10:19

CUSTOMER: 5505 / PERFORMANCE EXCAVATORS, INC.  
TRAILER: ROUTE: NA / Non App  
ORIGIN GROUP: / Richmond  
TRUCK: PERFOR LICENSE: NA / Non App  
TRUCK TYPE: NA / Non App  
COMMENT:

P.O.:  
GROSS: 36840 LBS  
TARE: 20440 LBS  
NET: 16400 LBS  
WO:

| WASTE                  | QUANTITY | UNIT | HAUL COST<br>RATE | AMOUNT    |
|------------------------|----------|------|-------------------|-----------|
| TPT / Trash By The Ton | 8.20     | T    | \$ 63.00          | \$ 565.80 |
| Mandatory Fees:        | 8.20     | T    | \$ 2.75           | \$ 22.55  |
|                        |          |      | Total:            | \$ 588.35 |

Driver:  Attendant: Lavetta Woods

I certify that I have not disposed  
of any liquid or hazardous waste.

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured,  
or counted by a weighmaster, whose signature is on this certificate, who is a recognized  
authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of  
Division 5 of the California Business and Professions Code, administered by the Division  
of Measurement Standards of the California Department of Food and Agriculture.

A650459

# West Contra Costa Sanitary Landfill, Inc.

408/715

A65120

Office (510) 231-4156 Landfill (510) 233-4330  
Foot of Parr Boulevard, Richmond, CA 94801

TICKET: 886327  
DATE: 12/13/2005  
TIME: 14:24 - 14:39

CUSTOMER: 505 / PERFORMANCE EXCAVATORS, INC P.O.:  
TRAILER: ROUTE: NA / Non App GROSS: 39760 LBS  
ORIGIN GROUP: / San Francisco TARE: 19940 LBS  
TRUCK: PERFORMAN LICENSE: 4Y90358 NET: 19820 LBS  
TRUCK TYPE: NA / Non App GRID: COM / Green Waste w/ the Compost Area  
COMMENT:

HAUL COST:

| WASTE                  | QUANTITY | UNIT | RATE     | AMOUNT    |
|------------------------|----------|------|----------|-----------|
| GC / Green Waste - Ton | 9.91     | T    | \$ 32.00 | \$ 317.12 |
| Mandatory Fees         | 0.00     | T    | \$ 0.00  | \$ 0.00   |
| Total:                 |          |      |          | \$ 317.12 |

Driver:

Attendant:

Jorge Flores

I certify that I have not disposed  
of any liquid or hazardous waste.

WEIGHMASTER CERTIFICATE  
THIS IS TO CERTIFY that the following described commodity was weighed, measured,  
or counted by a weighmaster, whose signature is on this certificate, who is a recognized  
authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of  
Division 5 of the California Business and Professions Code, administered by the Division  
of Measurement Standards of the California Department of Food and Agriculture.

# **West Contra Costa Sanitary Landfill, Inc.**

Office (510) 231-4156 Landfill (510) 233-4330  
Foot of Parr Boulevard, Richmond, CA 94801

**A658620**

TICKET: 886820  
DATE: 12/14/2005  
TIME: 13:53 - 13:53

CUSTOMER: 5505 / PERFORMANCE EXCAVATORS, INC.  
TRAILER: ROUTE: NA / Non App  
ORIGIN GROUP: / San Francisco  
TRUCK: Q LICENSE: 4Y90358  
TRUCK TYPE: NA / Non App GRID: NA / Non App  
COMMENT:

P.O.:  
GROSS: 39320 LBS  
TARE: 20100 LBS Manual  
NET: 19220 LBS  
WO

HAULCUST:

| WASTE                  | QUANTITY | UNIT | RATE     | AMOUNT    |
|------------------------|----------|------|----------|-----------|
| TPT / Trash By The Ton | 9.61     | T    | \$ 69.00 | \$ 663.09 |
| Mandatory Fees         | 9.61     | T    | \$ 2.75  | \$ 26.43  |
|                        |          |      | Total:   | \$ 689.52 |

**WEIGHMASTER CERTIFICATE**

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Driver:  Attendant: Maria Avalos

I certify that I have not disposed  
of any liquid or hazardous waste

# **West Contra Costa Sanitary Landfill, Inc.**

Office (510) 231-4156 Landfill (510) 233-4330  
Foot of Parr Boulevard, Richmond, CA 94801

**A651287**

CUSTOMER: 5505 / PERFORMANCE EXCAVATORS, INC.  
TRAILER: ROUTE: NA / Non App  
ORIGIN GROUP: / San Francisco  
TRUCK: PERFOR LICENSE: 4Y90368  
TRUCK TYPE: NA / Non App GRID: CDM / Green Waste W/ the Compost Area  
COMMENT:

TICKET: 886536  
DATE: 12/14/2005  
TIME: 09:45 - 09:58

P.O.:  
GROSS: 36740 LBS  
TARE: 20100 LBS  
NET: 16640 LBS

| WASTE                  | QUANTITY | UNIT | RATE     | AMOUNT    |
|------------------------|----------|------|----------|-----------|
| GC / Green Waste - Ton | 8.32     | T    | \$ 32.00 | \$ 266.24 |
| Mandatory Fees         | 0.00     |      | \$ 0.00  | \$ 0.00   |
| Total:                 |          |      |          | \$ 266.24 |

Driver:  Attendant: Laverta Woods

I certify that I have not disposed  
of any liquid or hazardous waste.

**WEIGHMASTER CERTIFICATE**

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

# **West Contra Costa Sanitary Landfill, Inc.**

Office (510) 231-4156 Landfill (510) 233-4330  
Foot of Parr Boulevard, Richmond, CA 94801

**A651344**

TICKET: 886663  
DATE: 12/14/2005  
TIME: 11:48 - 11:48

CUSTOMER: 5505 / PERFORMANCE EXCAVATORS, INC  
TRAILER: ROUTE NA / Non App  
ORIGIN GROUP: 9 / San Francisco  
TRUCK: S LICENSE CA 80087  
TRUCK TYPE: NA / Non App  
COMMENT: BRID NA / Non App

GROSS: 37520 LBS  
TARE: 20100 LBS Manual  
NET: 17420 LBS  
WO

| WASTE                  | QUANTITY | UNIT | RATE     | AMOUNT    |
|------------------------|----------|------|----------|-----------|
| TPT / Trash By The Ton | 8.71     | T    | \$ 69.00 | \$ 600.99 |
| Mandatory Fees         | 8.71     | T    | \$ 2.75  | \$ 23.95  |
|                        |          |      | Total:   | \$ 624.94 |

**WEIGHMASTER CERTIFICATE**

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Driver: C Attendant: Melvin Misa

I certify that I have not disposed of any liquid or hazardous waste.



**West Contra Costa  
Sanitary Landfill, Inc.**

Office (510) 231-4156 Landfill (510) 233-4330  
Foot of Parr Boulevard, Richmond, CA 94801

A670506

TICKET:

DATE: 897285

TIME: 01/12/2006

13:27 - 13:39

CUSTOMER:

TRAILER: 5505 / PERFORMANCE EXCAVATORS, INC

ORIGIN GROUP: NA / Non App

TRUCK: 9 / San Francisco

TRUCK TYPE: PERFORMANCE

COMMENT: PU / Pick Up Truck

GROSS:

TARE: 28360 LBS

NET: 19800 LBS

WO: 8560 LBS

WASTE QUANTITY UNIT RATE: 0000000 AMOUNT

TPT / Trash By The Ton 4.28 T \$ 75.25 \$ 322.07

Mandatory Fees 4.28 T \$ 2.70 \$ 11.77

Driver: *RA* Attendant: 333.84

I certify that I have not disposed  
of any liquid or hazardous waste.

Nathan Hosford

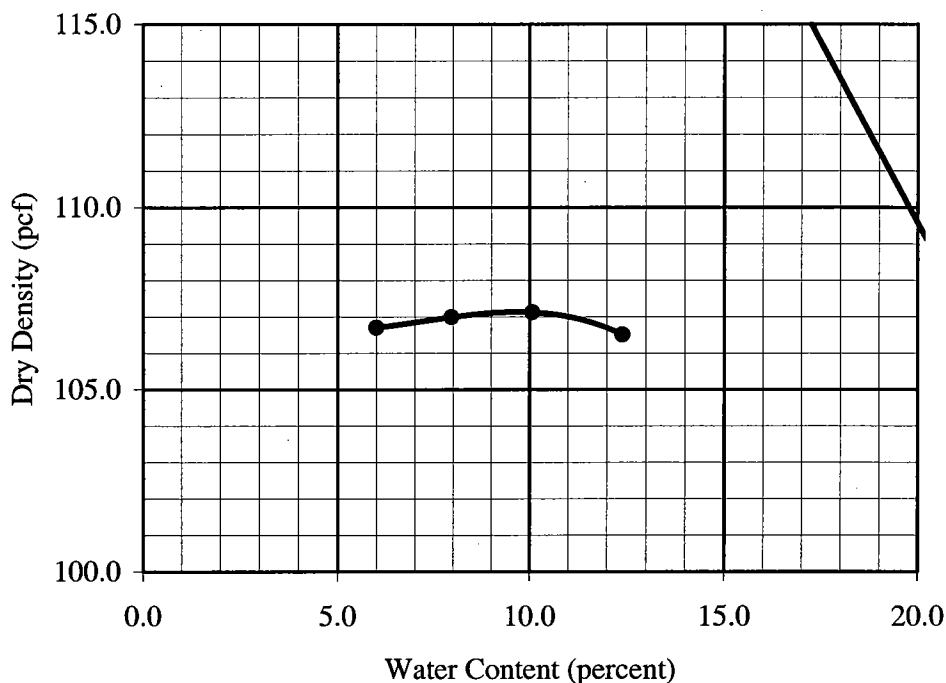
WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

700 1-2/10

**APPENDIX D**  
**Summary of Soil Compaction**

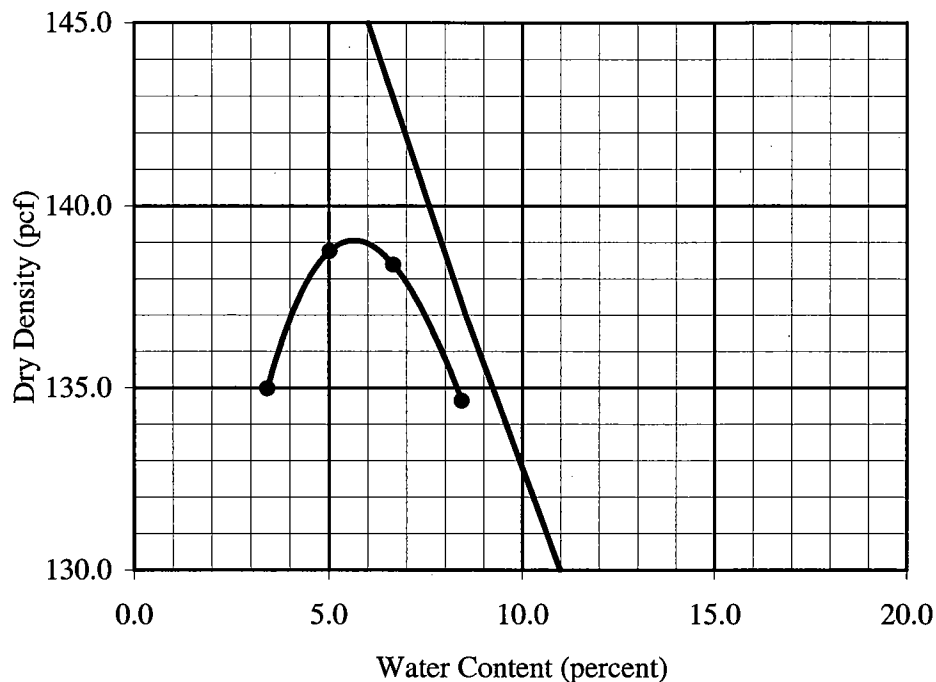
## COMPACTION TEST RESULTS



|  |             | Soil Data   |       |                |   | Test Specifications  |  |
|--|-------------|---|-------|----------------|---|--|--|
| Bulk Sample No. 1<br>Tested 12/4/05 by EKG   |             | LL = ____      Gs (assumed) = 2.7<br>% > 3/4" sieve = |       |                |   | ASTM D 1557-00<br>Procedure A<br>Hammer Weight: 10 lbs<br>Hammer Drop: 18 in<br>Number of Layers: 5<br>Blows per Layer: 25<br>Comp. Mold Size (ft <sup>3</sup> ) 0.033 |  |
| Test Data  |             |   |       |                |   |  |  |
|  | 1           | 2   | 3     | 4              | 5   |  |  |
|  | 13.16       | 13.24   | 13.19 | 13.25          |   |  |  |
| Wt. Mold (lb)  | 9.39        | 9.39  | 9.26  | 9.26           |   | Soil Classification  |  |
| Wet Wt. Soil + Dish (gm)   | 800.2       | 811.9   | 843.2 | 680.9          |   |  |  |
| Dry Wt. Soil + Dish (gm)   | 761.0       | 758.5   | 774.1 | 615.5          |   |  |  |
| Wt. Dish (gm)  | 108.0       | 87.9  | 88.0  | 88.0           |   |  |  |
| Dish ID Number   | D-2         | D-12  | D-4   | D-4            |   | Sand (SP), brown   |  |
| Moisture Content (%)   | 6.0         | 8.0   | 10.1  | 12.4           |   |  |  |
| Dry Density (pcf)  | 106.7       | 107.0   | 107.1 | 106.5          |   | Soil Source  |  |
| Test Results   |             |   |       |                |   |  |  |
|  | Uncorrected |   |       | Rock Corrected |   |  |  |
| Maximum Dry Density (pcf)  |             | 107   |       | -              |   |  |  |
| Optimum Moisture Content (%)   |             | 10  |       | -              |   |  |  |
| Client: TREADWELL & ROLLO<br>Project Name: Presidio - Baker Beach 3<br>Project Number: 2893.12 |             |   |       |                | GEO ENGINEERING SERVICES<br>11 Driftwood Court, Pacifica, California 94044<br>tel 650.359.4260 fax 650.359.2911 |  |  |

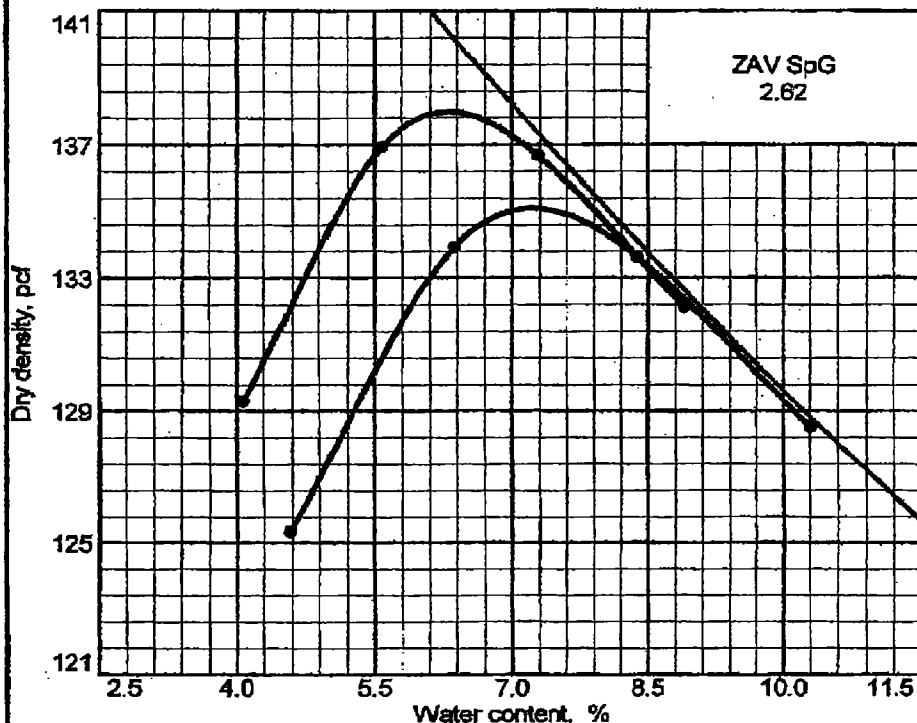


## COMPACTION TEST RESULTS



| Sample Identification  |        | Soil Data  |        |   |   |   | Test Specifications   |
|--|--------|--|--------|---|---|---|---|
| Bulk Sample No. 2<br>Tested 12/4/05 by EKG   |        | LL = ____      Gs (assumed) = 2.7<br>PI = ____      % > 3/4" sieve = |        |   |   |   | ASTM D 1557-00<br>Procedure C<br>Hammer Weight: 10 lbs<br>Hammer Drop: 18 in<br>Number of Layers: 5<br>Blows per Layer: 56<br>Comp. Mold Size (ft³) 0.075 |
| Test Data  |        |  |        |   |   |   |   |
|  | 1      | 2  | 3      | 4   | 5 |   |   |
| Wt. Mold + Soil (lb)   | 24.68  | 25.14  | 25.28  | 25.16   |   |   |   |
| Wt. Mold (lb)  | 14.21  | 14.21  | 14.21  | 14.21   |   |   |   |
| Wet Wt. Soil + Dish (gm)   | 1169.2 | 1050.5   | 1035.5 | 1079.6  |   |   |   |
| Dry Wt. Soil + Dish (gm)   | 1134.9 | 1005.5   | 975.5  | 1002.5  |   |   |   |
| Wt. Dish (gm)  | 132.3  | 109.9  | 74.8   | 88.2  |   |   |   |
| Dish ID Number   | D-16   | D-10   | D-35   | B-18  |   |   |   |
| Moisture Content (%)   | 3.4    | 5.0  | 6.7    | 8.4   |   |   |   |
| Dry Density (pcf)  | 135.0  | 138.8  | 138.4  | 134.6   |   |   |   |
| Test Results   |        |  |        |   |   | Soil Classification                     |   |
|  |        | Uncorrected  |        | Rock Corrected  |   | Gravel with Sand and Silt (GP-GM), gray |   |
| Maximum Dry Density (pcf)  |        | 139  |        |   |   |   |   |
| Optimum Moisture Content (%)   |        | 5.5  |        |   |   |   |   |
|  |        |  |        |   |   |   |   |
| Client: TREADWELL & ROLLO<br>Project Name: Presideo - Baker Beach 3<br>Project Number: 2893.12 |        |  |        | GEO ENGINEERING SERVICES<br>11 Driftwood Court, Pacifica, California 94044<br>tel 650.359.4260 fax 650.359.2911 |   |   |   |

# COMPACTION TEST REPORT



**Curve No.**  
**1**

**Test Specification:**

ASTM D 1557-91 PROCEDURE C

~~MODIFIED~~ correction applied to each point

Hammer Wt.: 10 lb.

Hammer Drop: 18 in.

Number of Layers: five

Blows per Layer: 56

Mold Size: .075 cu.ft.

Test Performed on Material

Passing 3/4 in. Sieve

**Soil Data**

NM \_\_\_\_\_ Sp.G. \_\_\_\_\_

LL \_\_\_\_\_ PI \_\_\_\_\_

%>3/4 in. 15.5 %<#200 10.7

USCS GP-GM AASHTO \_\_\_\_\_

**TESTING DATA**

|             | 1       | 2       | 3       | 4       | 5 | 6 |
|-------------|---------|---------|---------|---------|---|---|
| WM + WS     | 4459.0  | 4846.0  | 4927.0  | 4822.0  |   |   |
| WM          | 0.0     | 0.0     | 0.0     | 0.0     |   |   |
| WW + T #1   | 4459.00 | 4846.00 | 4927.00 | 4822.00 |   |   |
| WD + T #1   | 4264.00 | 4556.00 | 4546.00 | 4372.00 |   |   |
| TARE #1     | 0.00    | 0.00    | 0.00    | 0.00    |   |   |
| WW + T #2   |         |         |         |         |   |   |
| WD + T #2   |         |         |         |         |   |   |
| TARE #2     |         |         |         |         |   |   |
| MOISTURE    | 4.1     | 5.6     | 7.3     | 8.9     |   |   |
| DRY DENSITY | 129.3   | 136.9   | 136.7   | 132.1   |   |   |

**ROCK CORRECTED TEST RESULTS**

Maximum dry density = 138.0 pcf

Optimum moisture = 6.3 %

**UNCORRECTED**

135.1 pcf

7.2 %

**Material Description**

DARK REDDISH BROWN Poorly graded gravel with silt and sand

Project No. 95335 Client: TREADWELL & ROLLO #2893.12

Project: BBDA-3-THE PRESIDIO

• Location: ON-SITE

**Remarks:**

CLIENT/JPM, 1-11-06

COMPACTION TEST REPORT

**CONSTRUCTION MATERIALS TESTING INC.**

Plate

**Table D-1**  
**Summary of Field Density Tests**  
**Baker Beach Disturbed Area 3**  
Presidio of San Francisco, California

| Test Number | Date       | Location                 | Elevation/<br>Depth<br>(Feet MSL) | Material  | Dry Density<br>(pcf) | Moisture<br>Content<br>(Percent) | Maximum Dry<br>Density<br>(pcf) | Relative<br>Compaction<br>(Percent) | Required<br>Compaction<br>(Percent) | Comments          |
|-------------|------------|--------------------------|-----------------------------------|-----------|----------------------|----------------------------------|---------------------------------|-------------------------------------|-------------------------------------|-------------------|
| 1           | 12/16/2005 | Sta. 0+30<br>20' W of CL | 186 +/-                           | Dune Sand | 105                  | 12                               | 107                             | 98                                  | 95                                  |                   |
| 2           | 12/16/2005 | Sta. 0+35<br>18' W of CL | 186 +/-                           | Dune Sand | 107                  | 10                               | 107                             | 100                                 | 95                                  |                   |
| 3           | 12/21/2005 | Sta. 0+20<br>13' W of CL | 187.5 +/-                         | Dune Sand | 105                  | 12                               | 107                             | 98                                  | 95                                  |                   |
| 4           | 12/21/2005 | Sta. 0+35<br>14' W of CL | 187.5 +/-                         | Dune Sand | 104                  | 10                               | 107                             | 97                                  | 95                                  |                   |
| 5           | 1/4/2006   | Sta. 0+15<br>10' W of CL | 189.0 +/-                         | Dune Sand | 105                  | 12                               | 107                             | 95                                  | 95                                  |                   |
| 6           | 1/4/2006   | Sta. 0+45<br>10' W of CL | 189.0 +/-                         | Dune Sand | 104                  | 10                               | 107                             | 95                                  | 95                                  |                   |
| 7           | 1/5/2006   | Sta. 0+15<br>5' W of CL  | 190.5 +/-                         | Dune Sand | 106.3                | 10                               | 107                             | 98                                  | 95                                  |                   |
| 8           | 1/5/2006   | Sta. 0+45<br>5' W of CL  | 190.5 +/-                         | Dune Sand | 102                  | 10                               | 107                             | 95                                  | 95                                  |                   |
| 9           | 1/5/2006   | Sta. 0+15<br>CL          | 192.0 +/-                         | Dune Sand | 103                  | 10                               | 107                             | 96                                  | 95                                  |                   |
| 10          | 1/5/2006   | Sta. 0+20<br>CL          | 193.5 +/-                         | Dune Sand | 104.1                | 10                               | 107                             | 97                                  | 95                                  |                   |
| 11          | 1/9/2006   | Sta. 3+00<br>CL          | fsg +/-                           | Chert     | 128.2                | 8.8                              | 135.1                           | 95                                  | 95                                  |                   |
| 12          | 1/9/2006   | Sta. 3+50<br>CL          | fsg +/-                           | Chert     | 129.7                | 10.2                             | 135.1                           | 96                                  | 95                                  |                   |
| 13          | 1/9/2006   | Sta. 4+25<br>CL          | fsg +/-                           | Chert     | 125.5                | 10.4                             | 135.1                           | 93                                  | 95                                  | Fail, see Test 15 |
| 14          | 1/12/2006  | Sta. 2+75<br>CL          | fsg +/-                           | Chert     | 128.5                | 10                               | 135.1                           | 95                                  | 95                                  |                   |
| 15          | 1/12/2006  | Sta. 4+50<br>CL          | fsg +/-                           | Chert     | 129                  | 9.2                              | 135.1                           | 95                                  | 95                                  | Retest of Test 13 |
| 16          | 1/17/2006  | Sta. 4+25<br>CL          | fgab +/-                          | AB        | 132                  | 6.1                              | 139                             | 95                                  | 95                                  |                   |

**Table D-1**  
**Summary of Field Density Tests**  
**Baker Beach Disturbed Area 3**  
Presidio of San Francisco, California

| Test Number | Date      | Location     | Elevation/Depth (Feet MSL) | Material  | Dry Density (pcf) | Moisture Content (Percent) | Maximum Dry Density (pcf) | Relative Compaction (Percent) | Required Compaction (Percent) | Comments                   |
|-------------|-----------|--------------|----------------------------|-----------|-------------------|----------------------------|---------------------------|-------------------------------|-------------------------------|----------------------------|
| 17          | 1/17/2006 | Sta. 3+50 CL | fgab +/-                   | AB        | 132               | 5.7                        | 139                       | 95                            | 95                            |                            |
| 18          | 1/17/2006 | Sta. 3+00 CL | fgab +/-                   | AB        | 131.7             | 5.7                        | 139                       | 95                            | 95                            |                            |
| 19          | 1/17/2006 | Sta. 2+35 CL | fgab +/-                   | AB        | 125               | 6.5                        | 139                       | 90                            | 95                            | Pumping; Fail, see Test 23 |
| 20          | 1/17/2006 | Sta. 0+75 CL | fgab +/-                   | AB        | 132.2             | 7                          | 139                       | 95                            | 95                            |                            |
| 21          | 1/17/2006 | Sta. 1+25 CL | fgab +/-                   | AB        | 137.9             | 6.5                        | 139                       | 99                            | 95                            |                            |
| 22          | 1/17/2006 | Sta. 1+75 CL | fgab +/-                   | AB        | 131.5             | 6.6                        | 139                       | 95                            | 95                            |                            |
| 23          | 1/17/2006 | Sta. 2+25 CL | fgab +/-                   | AB        | 133               | 5.8                        | 139                       | 96                            | 95                            | Retest of Test 19          |
| 24          | 2/16/2006 | Sta. 0+35 CL | fsg +/-                    | Dune Sand | 105               | 9                          | 107                       | 98                            | 95                            |                            |
| 25          | 1/16/2006 | Sta. 0+25 CL | fsg +/-                    | Dune Sand | 106               | 10                         | 107                       | 99                            | 95                            |                            |
| 26          | 2/16/2006 | Sta. 0+05 CL | fgab +/-                   | AB        | 131.8             | 7.2                        | 139                       | 95                            | 95                            |                            |
| 27          | 2/16/2006 | Sta. 0+25 CL | fgab +/-                   | AB        | 132               | 7.3                        | 139                       | 90                            | 95                            |                            |

Notes

Feet MSL - Feet above mean sea level

pcf - Pounds per cubic feet

Sta.- Roadway Station

CL - Center Line

fsg - Final subgrade

fgab - Final grade of Aggregate base

AB - Aggregate base